

PO Box 4000 | 44865 Loudoun Water Way | Ashburn, VA 20146 Tel 571.291.7700 | Fax 571.223.2910

June 8, 2013

Mr. Douglas Frasier Commonwealth of Virginia Department of Environmental Quality Northern Virginia Regional Office 13901 Crown Court Woodbridge, VA 22193



Subject:

Goose Creek Industrial Park - Wastewater Treatment Facility

VPDES Permit No. VA0092380-

80993

Dear Mr. Frasier:

Please find enclosed Loudoun Water's submission for re-application of the referenced permit.

Should you have any questions, please feel free to contact me at 571.291.7835.

Sincerely,

Bruce Ringrose, PE

Manager of Community Systems

R. Bruce Ringrose

CC:

Tom Broderick – Loudoun Water Tom Bonacquisti – Loudoun Water Les Morefield – Loudoun Water Dave McGill – Loudoun Water

**Enclosures:** 

General Form 1

NPDES Form 2A - Application for Permit To Discharge Municipal Waste From POTWs

VPDES Sewage Sludge Permit Application Form

**VPDES Permit Application Addendum** 

**Public Billing Notice** 

TOPO and 3D TOPO Map for Elysian Heights

Map Sludge Route

Flow Process Diagram

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| I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attachments and that, based on my inquiry of those persons immediately responsible for obtaining the information contained in the application, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.  A. NAME & OFFICIAL TITLE (type or print)  Dale Hammes, General Manager  C. DATE SIGNED  LOGICAL SIGNED  COMMENTS FOR OFFICIAL USE ONLY  COMMENTS FOR OFFICIAL USE ONLY  STATES OF SIGNED  LOGICAL SIGNED  LOGIC | ·  |   |  |                                 |   |  |
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| application, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.  A. NAME & OFFICIAL TITLE (type or print)  Dale Hammes, General Manager  COMMENTS FOR OFFICIAL USE ONLY  COM | I certify under penalty of law that I have personally examination attachments and that, based on my inquiry of those personally examinations.  | ined and am fami<br>sons immediatel               | liar with the info<br>v responsible fo | ormation subn<br>r obtaining th | nitted in this appli<br>e information coi | cation and all   |
| A. NAME & OFFICIAL TITLE (type or print)  Dale Hammes, General Manager  COMMENTS FOR OFFICIAL USE ONLY  COMMENTS FOR OFFICIAL USE ONLY  13 16  | application, I believe that the information is true, accurate  | e and complete.                                   | I am aware that                        | there are sign                  | nificant penalties                        | or submitting  |
| Dale Hammes, General Manager  COMMENTS FOR OFFICIAL USE ONLY  CC  13 16  |  | B. SIGNATURE                                      |  |                                 | IC. DATE                                  | SIGNED   |
| COMMENTS FOR OFFICIAL USE ONLY  C  13 15   |  | 1 / / 10  | 011                                    |                                 | 1   |  |
| C  |  | Wall  | CHar                                   | mes                             | 0/3                                       | 115  |
|  | COMMENTS FOR OFFICIAL USE ONLY   |   |  | od odlasti odlast               |   | · · · · · · · · · · · · · · · · · · ·  |
|  | C  |   |  |                                 |   |  |
| EPA FORM 3310-1 (8-90)   | 15 16<br>EPA Form 3510-1 (8-90)  | •   | er to the second                       | 32 123 A                        | 58  |  |

# VPDES Permit Application Addendum

| 1. Entity to whom the permit is to be issued: Loudoun County Sanitation Authority  Who will be legally responsible for the wastewater treatment facilities and compliance with the permit? This may or may not be                       |
|---|
| the facility or property owner.   |
| 2. Is this facility located within city or town boundaries? Y. (N)  |
| 3. What is the tax map parcel number for the land where this facility is located? TM 61 Parcel 2A   |
| 4. For the facility to be covered by this permit, how many acres will be disturbed during the next five years due to new construction activities? 0   |
| 5. ALL FACILITIES: What is the design average flow of this facility? 0.010 MCD Industrial facilities: What is the max. 30-day avg. production level (include units)? N/A  |
| In addition to the above design flow or production level, should the permit be written with limits for any other discharge flow tiers or production levels? Y   |
| If "Yes", please specify the other flow tiers (in MGD) or production levels:  Please consider: Is your facility's design flow considerably greater than your current flow? Do you plan to expand operations during the next five years? |
| 6. Nature of operations generating wastewater:  domestic discharge from commercial/industrial operations  |
| 100 % of flow from domestic connections/sources  Number of private residences to be served by the wastewater treatment facilities:01-4950 or more   |
| 0 % of flow from non-domestic connections/sources   |
| 7. Mode of discharge:Continuous _x IntermittentSeasonal   |
| Describe frequency and duration of intermittent or seasonal discharges:   |
| week day discharge as needed (very occasionally) during year  |
| 8. Identify the characteristics of the receiving stream at the point just above the facility's discharge point:   |
| Permanent stream, never dry   |
| <ul> <li>Intermittent stream, usually flowing, sometimes dry</li> <li>Ephemeral stream, wet-weather flow, often dry</li> </ul>  |
| Effluent-dependent stream, usually or always dry  |
| Lake or pond at or below the discharge point  |
| _ Other:  |
| 9. Approval Date(s): O & M Manual September 8, 2000 Sludge/Solids Management Plan April 7, 1998   |

Have there been any changes in your operations or procedures since the above approval dates? ① N Revision Dates- Chlorine Tablet Feeder February, 2004

## **PUBLIC NOTICE BILLING INFORMATION**

I hereby authorize the Department of Environmental Quality to have the cost of publishing a public notice billed to the Agent/Department shown below. The public notice will be published once a week for two consecutive weeks in accordance with 9 VAC 25-31-290.C.2.

| Agent/Department to be billed: | Bruce Ringrose – Community Systems  |
|--------------------------------|-------------------------------------|
| Owner:                         | Loudoun County Sanitation Authority |
| Applicant's Address:           | 44865 Loudoun Water Way             |
|                                | Ashburn, Virginia 20146             |
| Agent's Telephone Number:      | 571-291-7835                        |
|                                |                                     |
| Authorizing Agent:             | R. Bruce Ringrose<br>Signature      |
|                                | Signature                           |

VPDES Permit No. VA0080993 Goose Creek Industrial Park WWTP

Please return to:

Douglas Frasier VA-DEQ, NRO 13901 Crown Court Woodbridge, VA 22193-1453 Fax: (703) 583-3841

Form Approved 1/14/99 OMB Number 2040-0086

FORM

**NPDES** 

2A

# NPDES FORM 2A APPLICATION OVERVIEW

#### APPLICATION OVERVIEW

Form 2A has been developed in a modular format and consists of a "Basic Application Information" packet and a "Supplemental Application Information" packet. The Basic Application Information packet is divided into two parts. All applicants must complete Parts A and C. Applicants with a design flow greater than or equal to 0.1 mgd must also complete Part B. Some applicants must also complete the Supplemental Application Information packet. The following items explain which parts of Form 2A you must complete.

#### **BASIC APPLICATION INFORMATION:**

- A. Basic Application Information for all Applicants. All applicants must complete questions A.1 through A.8. A treatment works that discharges effluent to surface waters of the United States must also answer questions A.9 through A.12.
- B. Additional Application Information for Applicants with a Design Flow ≥ 0.1 mgd. All treatment works that have design flows greater than or equal to 0.1 million gallons per day must complete questions B.1 through B.6.
- C. Certification. All applicants must complete Part C (Certification).

### SUPPLEMENTAL APPLICATION INFORMATION:

- D. Expanded Effluent Testing Data. A treatment works that discharges effluent to surface waters of the United States and meets one or more of the following criteria must complete Part D (Expanded Effluent Testing Data):
  - 1. Has a design flow rate greater than or equal to 1 mgd,
  - 2. Is required to have a pretreatment program (or has one in place), or
  - 3. Is otherwise required by the permitting authority to provide the information.
- E. Toxicity Testing Data. A treatment works that meets one or more of the following criteria must complete Part E (Toxicity Testing Data):
  - 1. Has a design flow rate greater than or equal to 1 mgd,
  - 2. Is required to have a pretreatment program (or has one in place), or
  - 3. Is otherwise required by the permitting authority to submit results of toxicity testing.
- F. Industrial User Discharges and RCRA/CERCLA Wastes. A treatment works that accepts process wastewater from any significant industrial users (SIUs) or receives RCRA or CERCLA wastes must complete Part F (Industrial User Discharges and RCRA/CERCLA Wastes). SIUs are defined as:
  - All industrial users subject to Categorical Pretreatment Standards under 40 Code of Federal Regulations (CFR) 403.6 and 40 CFR Chapter I, Subchapter N (see instructions); and
  - 2. Any other industrial user that;
    - Discharges an average of 25,000 gallons per day or more of process wastewater to the treatment works (with certain exclusions); or
    - Contributes a process wastestream that makes up 5 percent or more of the average dry weather hydraulic or organic capacity of the treatment plant; or
    - c. Is designated as an SIU by the control authority.
- G. Combined Sewer Systems. A treatment works that has a combined sewer system must complete Part G (Combined Sewer Systems).

# **ALL APPLICANTS MUST COMPLETE PART C (CERTIFICATION)**





# **BASIC APPLICATION INFORMATION**

|              |   | ICATION INFORMATION FOR ALL   |  | - 4  |  |  |  |  |  |  |  |
|--------------|---|---|--|--|--|--|--|--|--|--|--|
|              | <del></del>                                 | complete questions A.1 through A.8 of the   | his Basic Application Information pack   | 9t.  |  |  |  |  |  |  |  |
| 4.1.         | Facility Information                        |   | TO.  |  |  |  |  |  |  |  |  |
|              | Facility name                               | Goose Creek Industrial Park WW  | TP   |  |  |  |  |  |  |  |  |
|              | Mailing Address                             | P.O. Box 4000   |  |  |  |  |  |  |  |  |  |
|              |   | Ashburn, VA 20146   |  |  |  |  |  |  |  |  |  |
|              | Contact person                              | Dale C. Hammes  |  |  |  |  |  |  |  |  |  |
|              | Title                                       | General Manager   |  |  |  |  |  |  |  |  |  |
|              | Telephone number                            | 571-291-7700  |  |  |  |  |  |  |  |  |  |
|              | Facility Address                            | 42217 Cochran Mill Rd.  |  |  |  |  |  |  |  |  |  |
|              | (not P.O. Box)                              | Leesburg, VA 20175  |  |  |  |  |  |  |  |  |  |
| <b>4.2</b> . | Applicant Informati                         | on. If the applicant is different from the abov   | e, provide the following:  |  |  |  |  |  |  |  |  |
|              | Applicant name                              | Loudoun County Sanitation Authority   |  |  |  |  |  |  |  |  |  |
|              | Mailing Address                             | PO Box 4000   |  |  |  |  |  |  |  |  |  |
|              | , , , , , , , , , , , , , , , , , , ,       | Ashburn, VA 20146   | shburn, VA 20146   |  |  |  |  |  |  |  |  |
|              | Contact person                              | Bruce Ringrose  |  |  |  |  |  |  |  |  |  |
|              | Title                                       | Manager, Community Systems  |  |  |  |  |  |  |  |  |  |
|              | Telephone number                            | 571-291-7835  |  |  |  |  |  |  |  |  |  |
|              |   | owner or operator (or both) of the treatm   | ent works?   |  |  |  |  |  |  |  |  |
|              | owner                                       | operator  |  |  |  |  |  |  |  |  |  |
|              | Indicate whether com                        | espondence regarding this permit should beX applicant   | directed to the facility or the applicant.   |  |  |  |  |  |  |  |  |
| <b>l.3</b> . | Existing Environme                          | ntal Permits. Provide the permit number of  | any existing environmental permits that ha   | ve been issued to the treatment works  |  |  |  |  |  |  |  |
|              | (include state-issued                       | permits).   |  |  |  |  |  |  |  |  |  |
|              | NPDES VA0080                                | 993   | PSD N/A  |  |  |  |  |  |  |  |  |
|              | UIC N/A RCRA N/A                            |   | Other N/A  |  |  |  |  |  |  |  |  |
|              | RCRA N/A                                    |   | Other N/A  |  |  |  |  |  |  |  |  |
| <b>.4</b> .  | Collection System I entity and, if known, p | <b>nformation.</b> Provide information on municip<br>rovide information on the type of collection s | alities and areas served by the facility. Proystem (combined vs. separate) and its own | ovide the name and population of each<br>nership (municipal, private, etc.). |  |  |  |  |  |  |  |
|              | Name  | Population Served   | Type of Collection System  | Ownership  |  |  |  |  |  |  |  |
|              | Goose Creek In                              | d. Pk 12 businesses   | separate sanitary  | LCSA   |  |  |  |  |  |  |  |
|              |   |   |  |  |  |  |  |  |  |  |  |
|              |   |   |  |  |  |  |  |  |  |  |  |

| FACILITY NAME AND PERMIT NUMBER:            |  |
|---|--|
| Goose Creek Industrial Park WWTF, vA0080993 |  |
| A.5. Indian Country.                        |  |

|   | Form Approve | d 1/14/99 |
|---|--------------|-----------|
| • | OMB Number   | 2040-0086 |

| ). I | Indi       | an Country.  |                           |                    |                      |                  |                  |                |                |          |
|------|------------|--|---------------------------|--------------------|----------------------|------------------|------------------|----------------|----------------|----------|
| á    | a.         | is the treatment works loc   | cated in Indian Co        | ountry?            |                      |                  |                  |                | ٠              |          |
|      |            | Yes  | _X N                      | 0                  |                      |                  |                  |                |                |          |
| t    |            | Does the treatment works through) Indian Country?  |                           | eceiving water     | that is either in Ir | ndian Country o  | r that is upstre | am from (and e | eventually flo | ws       |
|      |            | Yes  | _X N                      | o                  |                      |                  |                  |                |                |          |
| •    | daily      | w. Indicate the design flow<br>of flow rate and maximum of<br>the of "this year" occurring | daily flow rate for       | each of the las    | st three years. Ea   | ach year's data  |                  |                |                |          |
| ē    | <b>a</b> . | Design flow rate0.01   | 0 mgd                     |                    |                      |                  |                  |                |                |          |
|      |            |  |                           | Two Years          | <u>Ago</u>           | Last Year        |                  | This Year      |                |          |
| ŧ    | b.         | Annual average daily flow  | rate                      | 0.000              | 19                   | 0.0015           |                  | 0.0009         | )              | mgd      |
| (    | ٥.         | Maximum daily flow rate  |                           | 0.009              | 2                    | 0.0092           |                  | 0.0092         | 2              | —<br>mgd |
|      |            | lection System. Indicate   |                           | llection system    | n(s) used by the t   | reatment plant.  | Check all that   | apply. Also e  | stimate the p  | ercent   |
|      | X          | Separate sanitary s  | ewer                      |                    | ,                    |                  |                  | 100            |                | %        |
| -    |            | Combined storm an  |                           |                    |                      | •                |                  |                |                | - ~<br>% |
| -    |            |  | io sariiary serier        |                    |                      |                  |                  |                |                | - ″      |
| B. C | Dis        | charges and Other Disp   | osal Methods.             |                    |                      |                  |                  |                |                |          |
| ŧ    | 3.         | Does the treatment works   | s discharge efflue        | nt to waters of    | the U.S.?            |                  | X                | Yes            |                | No       |
|      |            | If yes, list how many of ea  | ach of the following      | ng types of disc   | charge points the    | treatment work   | s uses:          |                |                | _        |
|      |            | i. Discharges of treated   | d effluent                |                    | - '                  |                  |                  |                | ~1~            |          |
|      |            | ii. Discharges of untrea   | ted or partially tre      | ated effluent      |                      |                  |                  | -              | ~0~            |          |
|      |            | iii. Combined sewer ove  | · -                       |                    |                      |                  | •                | _              | ~0~            |          |
|      |            | iv. Constructed emerger  | ,                         | or to the head     | works)               |                  |                  | ·              | ~0~            |          |
|      |            | v. Other   | ,                         |                    | ,                    |                  |                  | -              | ~0~            |          |
|      |            |  |                           |                    | _                    |                  |                  | _              |                |          |
| t    |            | Does the treatment works   |                           |                    |                      | rface impoundr   | nents            | .,             | х              |          |
|      |            | that do not have outlets for   | -                         |                    |                      |                  |                  | Yes            |                | _ No     |
|      |            | If yes, provide the following<br>Location:   | ig <u>joi each sunai</u>  | <u>æ impounome</u> | <u>.K</u> :          |                  |                  |                |                |          |
|      |            | Annual average daily volu  | me discharged to          | n surface impo     | undment(e)           |                  | ·                |                | mad            |          |
|      |            | • ,  | continuous o              |                    | intermittent?        |                  | · · ·            |                | mgd            |          |
|      |            |  | CONTINUOUS O              | <del>-</del>       | _ intermittent;      |                  |                  |                |                |          |
| c    | <b>5</b> . | Does the treatment works   | land-apply treate         | ed wastewater      | <b>?</b>             |                  |                  | Yes            | X              | _ No     |
|      |            | If yes, provide the following  | ng <u>for each land a</u> | pplication site:   |                      |                  |                  |                |                |          |
|      |            | Location:  |                           |                    |                      |                  |                  |                |                |          |
|      |            | Number of acres:   |                           |                    |                      |                  |                  |                |                |          |
|      |            | Annual average daily volu  | me applied to site        | e:                 |                      |                  | Mgd              |                |                |          |
|      |            | Is land application  | continu                   | uous or            | intermit             | tent?            |                  |                |                |          |
|      |            |  |                           |                    |                      |                  |                  |                |                |          |
| d    |            | Does the treatment works treatment works   | discharge or tra          | nsport treated     | or untreated was     | tewater to anoth | ier              | Yes            | Х              | No       |

Goose Creek Industrial Park WWTF, A0080993

Form Approved 1/14/99 OMB Number 2040-0086

| If transport is by a p  | party other than the applicant, provide:   |              |   |               |
|---|--|--------------|---|---------------|
| Transporter name:   | N/A  |              |   |               |
| Mailing Address:  |  |              |   |               |
| ,   |  |              |   |               |
| Contact person:   | N/A  |              |   |               |
| Title:  |  |              |   |               |
| Telephone number  | :  |              |   |               |
| Name:   | N/A  |              |   |               |
| Name  | N/A  |              |   |               |
| Mailing Address:  |  |              |   |               |
| ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,  |  |              |   |               |
|   |  |              |   |               |
|   |  |              |   |               |
| Contact person:   |  | <del>"</del> |   |               |
| Title:  |  |              | <del>\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ </del> |               |
| Title: Telephone number   | ·  |              | ***   |               |
| Title: Telephone number If known, provide th  | :ene NPDES permit number of the treatment works that receives this discharge.  |              | ***   |               |
| Title: Telephone number If known, provide th  | ·  |              |   | mgd           |
| Title: Telephone number If known, provide the Provide the averag Does the treatment   | :ene NPDES permit number of the treatment works that receives this discharge.  | Yes          | x   | _ mgd<br>_ No |
| Title: Telephone number If known, provide the Provide the averag  Does the treatment A.8.a through A.8.c  | e NPDES permit number of the treatment works that receives this discharge.  e daily flow rate from the treatment works into the receiving facility.  works discharge or dispose of its wastewater in a manner not included in  |              |   | _             |
| Title: Telephone number If known, provide the Provide the averag  Does the treatment A.8.a through A.8.c If yes, provide the f                    | tworks discharge or dispose of its wastewater in a manner not included in above (e.g., underground percolation, well injection)?   |              |   | _             |
| Title: Telephone number If known, provide the Provide the averag Does the treatment A.8.a through A.8.c If yes, provide the f Description of meth | the NPDES permit number of the treatment works that receives this discharge.  The daily flow rate from the treatment works into the receiving facility.  The works discharge or dispose of its wastewater in a manner not included in the dispose of its wastewater in a manner not included in the dispose of its wastewater in a manner not included in the disposal method: |              |   | _             |

#### **FACILITY NAME AND PERMIT NUMBER:**

Goose Creek Industrial Park WWTF; VA0080993

### **WASTEWATER DISCHARGES:**

If you answered "yes" to question A.8.a, complete questions A.9 through A.12 once for each outfall (including bypass points) through which effluent is discharged. Do not include information on combined sewer overflows in this section. If you answered "no" to question A.8.a, go to Part B, "Additional Application information for Applicants with a Design Flow Greater than or Equal to 0.1 mgd."

| a.   | Outfall number                    | 001                                    |                                 |   |
|------|-----------------------------------|--|---------------------------------|---|
| b.   | Location                          | Leesburg                               | 20175                           |   |
|      |                                   | (City or town, if applicable)          | (Zip Code)<br>VA                |   |
|      |                                   | (County)<br>77 degrees 31' 09" N       | (State)<br>39 degrees 04' 20" W |   |
|      |                                   | (Latitude)                             | (Longitude)                     |   |
| C.   | Distance from shore (             | if applicable)                         | 0.001 ft.                       |   |
| d.   | Depth below surface               | (if applicable)                        | above surface ft.               |   |
| e.   | Average daily flow rate           | e                                      | 0.0011 mgd                      |   |
| f.   | Does this outfall have discharge? | either an intermittent or a periodic   | ;<br>XYesNo (go to A.9.g.)      |   |
|      | If yes, provide the follo         | owing information:                     |                                 |   |
|      | Number of times per y             | year discharge occurs:                 | 11 on average                   |   |
|      | Average duration of e             | ach discharge:                         | 5 days                          |   |
|      | Average flow per disc             | harge:                                 | 0.0075 mgd                      | · |
|      | Months in which disch             | narge occurs:                          | varies year round               |   |
| g.   | Is outfall equipped wit           | h a diffuser?                          | Yes No                          |   |
| . De | escription of Receiving           | n Waters.                              |                                 |   |
|      |                                   | Sycolin Creek                          |                                 |   |
| a.   | Name of receiving wa              | ter Gyddin Greek                       |                                 |   |
| b.   | Name of watershed (if             | f known)                               | Middle Potomac-Catoctin         |   |
|      | United States Soil Co             | nservation Service 14-digit waters     | hed code (if known);            |   |
| c.   | Name of State Manag               | ement/River Basin (if known):          | Potomac River                   |   |
|      | United States Geologi             | cal Survey 8-digit hydrologic catal    | oging unit code (if known):     |   |
| d.   |                                   | eiving stream (if applicable):         |                                 |   |
|      |                                   | cfs                                    | chronic cfs                     |   |
| e.   | Total hardness of rece            | eiving stream at critical low flow (if | applicable): mg/l of CaCO3      |   |
| •    |                                   |  |                                 |   |
| •    |                                   |  |                                 |   |

Form Approved 1/14/99 OMB Number 2040-008

| Goose Creek Indust                       | rial Park '                                | wwtf; √                                   | 40080993                                    |   |   |  |                        | C   | MB                 | Number 2040-0086   |
|--|--|---|---|---|---|--|------------------------|---|--------------------|--|
| A.11. Description of Tre                 | atment.                                    |   |   |   |   |  |                        |   |                    |  |
| a. What levels of                        | treatment an                               | e provided?                               | heck all that a                             | apply.  |   |  |                        |   |                    |  |
| Pri                                      | imary                                      | _   | X Se  | condary   |   |  |                        |   |                    |  |
| Ad                                       | lvanced                                    | _   | Otl   | her. Describe:  |   |  |                        |   |                    |  |
| b. Indicate the foll                     | owing remov                                | /al rates (as                             | applicable):                                |   |   |  |                        |   |                    |  |
| Design BOD <sub>5</sub> n                | emoval <u>or</u> D                         | esign CBOD                                | removal                                     |   |   | >85 a                                    | ctua                   | al <u> </u>                                       |                    |  |
| Design SS rem                            | oval                                       |   |   |   |   | >85 a                                    | ctua                   | al %  |                    |  |
| Design P remo                            | val  |   |   |   |   | N/A                                      |                        | %   |                    |  |
| Design N remo                            | vai  |   |   |   | _   | N/A                                      |                        | %   |                    |  |
| Other                                    |  |   |   |   | <u></u>                                       |  |                        | %   |                    |  |
| c. What type of di                       | sinfection is                              | used for the                              | effluent from                               | this outfall? If disin                                    | fection varies                                | by season                                | , pleas                | se describe.                                      |                    |  |
| chlorination                             | n/dechlori                                 | ination                                   |   |   |   |  |                        |   |                    |  |
| If disinfection is                       | by chlorina                                | tion, is dechl                            | orination used                              | for this outfall?   | <u> </u>                                      | X  | _ Ye                   | es  |                    | No   |
| d. Does the treatn                       | nent plant ha                              | ive post aera                             | ion?  |   |   | X  | _ Ye                   | es  |                    | No   |
| collected through                        | ot include i<br>analysis co<br>nd other ap | nformation<br>onducted us<br>opropriate C | on combined<br>ing 40 CFR F<br>A/QC require | sewer overflows<br>Part 136 methods.<br>Pments for standa | in this secti<br>. In addition<br>ard methods | on. All info<br>this data<br>for analyte | ormat<br>must<br>es no | tion reported r<br>comply with (<br>t addressed b | mus<br>QA/<br>y 40 | t be based on data<br>QC requirements of<br>CFR Part 136. At a |
| PARAMET                                  |  |   | MAYIMI IM                                   | DAILY VALUE   | <del></del>                                   |  | A) /E I                | RAGE DAILY \                                      | /A 1               |  |
| 1 7 TO TO TO THE                         | LIV.                                       | <u> </u>                                  |   |   |   |  | AVE                    |   |                    | · ·  |
|  |  |   | Value                                       | Units   | Va  | lue<br>                                  |                        | Units   |                    | Number of Samples  |
| pH (Minimum)                             |  |   | 5.9   | s.u.  |   |  |                        |   |                    | 158  |
| pH (Maximum)                             |  |   | 3.8   | s.u.  |   |  |                        |   |                    | 158  |
| Flow Rate                                |  |   | .009  |   |   | 08 :                                     | _                      | MGD   |                    | 158  |
| Temperature (Winter)                     |  |   | 2.0   | -   | 7.4   |  |                        | C   |                    | 160  |
| Temperature (Summer) * For pH please rep | ort a minimu                               |   | 5.1   | dua   | 20  | .0                                       |                        | <u> </u>  |                    | 203  |
| POLLUTANT                                | or a minimum                               | MAXII                                     | IUM DAILY<br>CHARGE                         |   | GE DAILY DIS                                  | CHARGE                                   |                        | ANALYTICA   | YTICAL ML / MDL    |  |
| **************************************   |  |   |   | -   | 1   | T  |                        | METHOD  |                    |  |
|  |  | Conc.                                     | Units                                       | Conc.   | Units   | Numb<br>Samp                             |                        |   |                    |  |
| CONVENTIONAL AND NO                      | DNCONVEN                                   | ITIONAL CO                                | MPOUNDS.                                    |   |   |  |                        |   |                    |  |
| BIOCHEMICAL OXYGEN                       | BOD-5                                      | 8.4                                       | mg/L  | 3.8   | mg/L  | 11                                       |                        | 5210 B  |                    | 5 mg/L   |
| DEMAND (Report one)                      | CBOD-5                                     | 7.8                                       | mg/L  | 4.9   | mg/L  | . 8                                      |                        | 5210 B  |                    | 5 mg/L   |

**END OF PART A.** 

9.4

mg/L

19

2540 D.

REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM 2A YOU MUST COMPLETE

19.0

mg/L

FECAL COLIFORM

**TOTAL SUSPENDED SOLIDS (TSS)** 

1 mg/L

# FACILITY NAME AND PERMIT NUMBER:

Goose Creek Industrial Park WWTF; VA0080993



# **BASIC APPLICATION INFORMATION**

|       | OIO ALT EIOATION INTONIMATION  |
|-------|--|
| PAR   | T B. ADDITIONAL APPLICATION INFORMATION FOR APPLICANTS WITH A DESIGN FLOW GREATER THAN OR EQUAL TO 0.1 MGD (100,000 gallons per day).  |
| All a | oplicants with a design flow rate ≥ 0.1 mgd must answer questions B.1 through B.6. All others go to Part C (Certification).  |
| B.1.  | Inflow and Infiltration. Estimate the average number of gallons per day that flow into the treatment works from inflow and/or infiltration.  |
|       | Briefly explain any steps underway or planned to minimize inflow and infiltration.   |
|       |  |
| B.2.  | <b>Topographic Map.</b> Attach to this application a topographic map of the area extending at least one mile beyond facility property boundaries. This map must show the outline of the facility and the following information. (You may submit more than one map if one map does not show the entire area.)   |
|       | a. The area surrounding the treatment plant, including all unit processes.   |
|       | b. The major pipes or other structures through which wastewater enters the treatment works and the pipes or other structures through which treated wastewater is discharged from the treatment plant. Include outfalls from bypass piping, if applicable.  |
|       | c. Each well where wastewater from the treatment plant is injected underground.  |
|       | d. Wells, springs, other surface water bodies, and drinking water wells that are: 1) within 1/4 mile of the property boundaries of the treatment works, and 2) listed in public record or otherwise known to the applicant.  |
|       | e. Any areas where the sewage sludge produced by the treatment works is stored, treated, or disposed.  |
|       | f. If the treatment works receives waste that is classified as hazardous under the Resource Conservation and Recovery Act (RCRA) by truck, rail, or special pipe, show on the map where that hazardous waste enters the treatment works and where it is treated, stored, and/or disposed.  |
| B.3.  | <b>Process Flow Diagram or Schematic.</b> Provide a diagram showing the processes of the treatment plant, including all bypass piping and all backup power sources or redundancy in the system. Also provide a water balance showing all treatment units, including disinfection (e.g, chlorination and dechlorination). The water balance must show daily average flow rates at influent and discharge points and approximate daily flow rates between treatment units. Include a brief narrative description of the diagram. |
| B.4.  | Operation/Maintenance Performed by Contractor(s).  |
|       | Are any operational or maintenance aspects (related to wastewater treatment and effluent quality) of the treatment works the responsibility of a contractor?YesNo  |
|       | If yes, list the name, address, telephone number, and status of each contractor and describe the contractor's responsibilities (attach additional pages if necessary).   |
|       | Name:  |
|       | Mailing Address:   |
|       | Telephone Number:  |
|       | Responsibilities of Contractor:  |
|       | Scheduled Improvements and Schedules of Implementation. Provide information on any uncompleted implementation schedule or uncompleted plans for improvements that will affect the wastewater treatment, effluent quality, or design capacity of the treatment works. If the treatment works has several different implementation schedules or is planning several improvements, submit separate responses to question B.5 for each. (If none, go to question B.6.)   |
|       | List the outfall number (assigned in question A.9) for each outfall that is covered by this implementation schedule.   |
|       | b. Indicate whether the planned improvements or implementation schedule are required by local, State, or Federal agencies.   |
|       | YesNo  |

END OF PART B.

REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM

2A YOU MUST COMPLETE

OTHER

| FACILITY NAME AND PERI   | MIT NUMBER:  |  | Form Approved 1/14/99  |
|--|--|--|--|
| Goose Creek Industria  | Park WWTF; VA00  | 80993  | OMB Number 2040-0086   |
| BASIC APPLICAT   | ION INFORMATI  | ON i   |  |
|  |  |  |  |
| PART C. CERTIFICATIO   | N  |  |  |
| applicants must complete all a                                   | applicable sections of Form  . By signing this certification | n 2A, as explained in the Ap<br>on statement, applicants co    | rmine who is an officer for the purposes of this certification. All plication Overview. Indicate below which parts of Form 2A you have nfirm that they have reviewed Form 2A and have completed all sections   |
| Indicate which parts of  | f Form 2A you have com                                       | pleted and are submitting                                      | g:   |
| X Basic Application  | n Information packet   | Supplemental Application                                       | Information packet:  |
|  |  | Part D (Expande  | d Effluent Testing Data)   |
|  |  | Part E (Toxicity   | Testing: Biomonitoring Data)   |
|  |  | Part F (Industria  | User Discharges and RCRA/CERCLA Wastes)  |
|  |  | Part G (Combine  | ad Sewer Systems)  |
| ALL APPLICANTS MUST C  | OMPLETE THE FOLLOW   | ING CERTIFICATION.   |  |
| to assure that qualified person<br>system or those persons direc | nnet property gather and ev<br>atly responsible for gatherir | raluate the information subm<br>ng the information, the inform | under my direction or supervision in accordance with a system designed itted. Based on my inquiry of the person or persons who manage the nation is, to the best of my knowledge and belief, true, accurate, and ation, including the possibility of fine and imprisonment for knowing |
| Name and official title  | Dale C. Hammes,  | General Manager  |  |
| Signature  | <u> Nacei</u>  | Stamme.  |  |
| Telephone number   | 571-291-7700   |  |  |
| Date signed  | 6/5/   | (3   |  |
| Upon request of the permitting or identify appropriate permitti  |  | it any other information nec                                   | essary to assess wastewater treatment practices at the treatment works   |

SEND COMPLETED FORMS TO:



Goose Creek Industrial Park WWTF; VA0080993

Form Approved 1/14/99 OMB Number 2040-0086

### SUPPLEMENTAL APPLICATION INFORMATION

#### PART D. EXPANDED EFFLUENT TESTING DATA

Refer to the directions on the cover page to determine whether this section applies to the treatment works.

Effluent Testing: 1.0 mgd and Pretreatment Treatment Works. If the treatment works has a design flow greater than or equal to 1.0 mgd or it has (or is required to have) a pretreatment program, or is otherwise required by the permitting authority to provide the data, then provide effluent testing data for the following pollutants. Provide the indicated effluent testing information and any other information required by the permitting authority for each outfall through which effluent is discharged. Do not include information on combined sewer overflows in this section. All information reported must be based on data collected through analyses conducted using 40 CFR Part 136 methods. In addition, these data must comply with QA/QC requirements of 40 CFR Part 136 and other appropriate QA/QC requirements for standard methods for analytes not addressed by 40 CFR Part 136. Indicate in the blank rows provided below any data you may have on pollutants not specifically listed in this form. At a minimum, effluent testing data must be based on at least three pollutant scans and must be no more than four and one-half years old.

| Outfall number:                         | (Com       | plete on  | ce for ea | ch outfall | discharg  | jing efflu | ent to wa  | aters of | the United S            | tates.)              |         |
|---|------------|-----------|-----------|------------|-----------|------------|------------|----------|-------------------------|----------------------|---------|
| POLLUTANT                               | '          |           | JM DAIL'  | Y          | Α\        | ÆRAGE      | DAILY      | DISCH    | ARGE                    |                      |         |
|   | Conc.      |           | Mass      | Units      | Conc.     | Units      | Mass       | Units    | Number<br>of<br>Samples | ANALYTICAL<br>METHOD | ML/ MDL |
| METALS (TOTAL RECOVERABLE), C           | YANIDE, I  | PHENOL    | S, AND H  | ARDNES     | S.        | <b>.</b>   |            |          |                         |                      | ı       |
| ANTIMONY                                |            |           |           |            |           |            |            |          |                         |                      |         |
| ARSENIC                                 |            |           |           |            |           |            |            |          |                         |                      |         |
| BERYLLIUM                               |            |           |           |            |           |            |            |          |                         |                      |         |
| CADMIUM                                 |            |           |           |            |           |            |            |          |                         |                      |         |
| CHROMIUM                                |            |           |           |            |           |            |            |          |                         |                      |         |
| COPPER                                  |            |           |           |            |           |            |            |          |                         |                      |         |
| LEAD                                    |            |           |           |            |           |            |            |          |                         |                      |         |
| MERCURY                                 |            |           |           |            |           |            |            |          |                         |                      |         |
| NICKEL                                  |            |           |           |            |           |            |            |          |                         |                      |         |
| SELENIUM                                |            |           |           |            |           |            |            |          |                         |                      |         |
| SILVER                                  |            |           |           |            |           |            |            |          |                         |                      |         |
| THALLIUM                                |            |           |           |            |           |            |            |          |                         |                      |         |
| ZINC                                    |            |           |           |            |           |            |            |          |                         |                      |         |
| CYANIDE                                 |            |           |           |            |           |            |            |          |                         |                      |         |
| TOTAL PHENOLIC COMPOUNDS                |            |           |           |            |           |            |            |          |                         |                      |         |
| HARDNESS (AS CaCO <sub>3</sub> )        |            |           |           |            |           |            |            |          |                         |                      |         |
| Use this space (or a separate sheet) to | provide in | formation | on other  | metals re  | quested b | y the per  | mit writer |          |                         |                      |         |
|   | <u> </u>   |           |           |            | L         |            |            |          |                         |                      |         |
|   |            |           |           |            |           |            |            |          |                         |                      |         |

Goose Creek Industrial Park WWTF, VA0080993



Form Approved 1/14/99 OMB Number 2040-0086

| Outfall number:POLLUTANT     |       |       | M DAIL |       |       |        |          | DISCHA | United State            | ,                                     |         |
|------------------------------|-------|-------|--------|-------|-------|--------|----------|--------|-------------------------|---------------------------------------|---------|
| POLLOTANT                    | L     |       | HARGE  | ŗ     | _^`   | VERAGE | DAILT    | DISCHA |                         |                                       |         |
|                              | Conc. | Units | Mass   | Units | Conc. | Units  | Mass     | Units  | Number<br>of<br>Samples | ANALYTICAL<br>METHOD                  | ML/ MDL |
| VOLATILE ORGANIC COMPOUNDS.  |       |       |        |       |       |        | <u>.</u> |        | outipioo .              |                                       |         |
| ACROLEIN                     |       |       |        |       |       |        |          |        |                         |                                       |         |
| ACRYLONITRILE                |       |       |        |       |       |        | _        |        |                         |                                       |         |
| BENZENE                      |       |       |        |       |       |        |          |        | ·                       |                                       |         |
| BROMOFORM                    |       |       |        |       |       |        |          |        |                         |                                       |         |
| CARBON TETRACHLORIDE         |       |       |        |       |       |        |          |        |                         |                                       |         |
| CLOROBENZENE                 |       |       |        |       |       |        |          |        |                         |                                       |         |
| CHLORODIBROMO-METHANE        |       |       |        |       |       |        |          |        |                         |                                       |         |
| CHLOROETHANE                 |       |       |        | :     |       |        |          |        |                         |                                       |         |
| 2-CHLORO-ETHYLVINYL<br>ETHER |       |       |        |       |       |        |          |        |                         |                                       |         |
| CHLOROFORM                   |       |       |        |       |       |        |          |        |                         |                                       |         |
| DICHLOROBROMO-METHANE        |       |       |        |       |       |        |          |        |                         |                                       |         |
| 1,1-DICHLOROETHANE           |       |       |        |       |       |        |          |        |                         |                                       |         |
| 1,2-DICHLOROETHANE           |       |       |        |       |       |        |          |        |                         |                                       |         |
| TRANS-1,2-DICHLORO-ETHYLENE  |       |       |        |       |       |        |          | ·      |                         |                                       |         |
| 1,1-DICHLOROETHYLENE         |       |       |        |       |       |        |          |        |                         |                                       |         |
| 1,2-DICHLOROPROPANE          |       |       |        |       |       |        |          |        | -                       |                                       |         |
| 1,3-DICHLORO-PROPYLENE       |       |       |        |       |       |        |          |        |                         |                                       |         |
| ETHYLBENZENE                 |       |       |        |       |       |        |          |        |                         |                                       |         |
| METHYL BROMIDE               |       |       |        |       |       |        |          |        |                         |                                       |         |
| METHYL CHLORIDE              |       |       |        |       |       |        |          |        |                         | ·                                     |         |
| METHYLENE CHLORIDE           |       |       |        |       |       |        | ·        |        |                         |                                       |         |
| 1,1,2,2-TETRACHLORO-ETHANE   |       |       |        |       |       |        |          |        |                         |                                       |         |
| FETRACHLORO-ETHYLENE         |       |       |        |       |       |        |          |        |                         | <del></del>                           |         |
| TOLUENE                      |       |       |        |       |       |        |          |        |                         | · · · · · · · · · · · · · · · · · · · |         |



| Outfall number:                      | (Comple                    | te once    | for each   | outfall di | scharging  | g effluen | t to wate | rs of the | United State                           | <b>≃s.</b> )         | ·-·     |
|--------------------------------------|----------------------------|------------|------------|------------|------------|-----------|-----------|-----------|--|----------------------|---------|
| POLLUTANT                            | MAXIMUM DAILY<br>DISCHARGE |            |            |            | A۱         | ÆRAGE     | DAILY     | DISCHA    |  |                      |         |
|                                      | Conc.                      |            | Mass       | Units      | Conc.      | Units     | Mass      | Units     | Number<br>of<br>Samples                | ANALYTICAL<br>METHOD | ML/ MDL |
| 1,1,1-TRICHLOROETHANE                |                            |            |            |            |            |           |           |           |  |                      |         |
| 1,1,2-TRICHLOROETHANE                |                            |            |            |            |            |           |           |           |  |                      |         |
| TRICHLORETHYLENE                     |                            |            |            |            |            |           |           |           |  |                      |         |
| VINYL CHLORIDE                       |                            |            |            |            |            |           |           |           |  |                      |         |
| Use this space (or a separate sheet) | to provide in              | nformation | n on other | volatile o | rganic cor | npounds   | requested | by the p  | ermit writer.                          |                      |         |
| ACID-EXTRACTABLE COMPOUND            | <u> </u>                   | <u> </u>   | <u> </u>   |            |            |           |           |           |  |                      |         |
|                                      |                            | T          |            | I          |            | Į         |           | 1         |  |                      |         |
| P-CHLORÓ-M-CRESÓL                    |                            |            |            |            |            |           |           |           |  |                      |         |
| 2-CHLOROPHENOL                       |                            |            |            |            |            |           |           |           |  |                      |         |
| 2,4-DICHLOROPHENOL                   |                            |            |            |            |            |           |           |           |  |                      |         |
| 2,4-DIMETHYLPHENOL                   |                            |            |            |            |            |           |           |           |  |                      |         |
| 4,6-DINITRO-O-CRESOL                 |                            |            |            |            |            |           |           |           |  |                      |         |
| 2,4-DINITROPHENOL                    |                            |            |            |            |            |           |           |           |  |                      |         |
| 2-NITROPHENOL                        |                            |            |            |            |            |           |           |           |  |                      |         |
| 4-NITROPHENOL                        |                            |            |            |            |            |           |           |           |  |                      |         |
| PENTACHLOROPHENOL                    |                            |            |            |            |            |           |           |           |  |                      |         |
| PHENOL                               |                            |            |            |            |            |           |           |           |  |                      |         |
| 2,4,6-TRICHLOROPHENOL                |                            |            |            |            |            |           |           |           |  |                      |         |
| Use this space (or a separate sheet) | to provide in              | nformatio  | n on other | acid-extr  | actable co | mpounds   | requeste  | ed by the | permit writer.                         |                      |         |
|                                      |                            |            |            |            |            |           |           |           |  |                      |         |
| BASE-NEUTRAL COMPOUNDS.              |                            |            | <u> </u>   |            |            |           | <u> </u>  | <b></b>   |  |                      |         |
| ACENAPHTHENE                         |                            |            |            |            |            |           |           |           |  |                      |         |
| ACENAPHTHYLENE                       |                            |            |            |            |            |           |           |           |  |                      |         |
| ANTHRACENE                           |                            |            |            |            |            |           |           |           |  |                      |         |
| BENZIDINE                            |                            |            |            |            |            |           |           |           | ······································ |                      |         |
| BENZO(A)ANTHRACENE                   |                            |            |            |            |            |           |           | <u> </u>  |  |                      |         |

| BENZO(A)PYRENE                              |  | • |  |  |  |  |  |   | ) |         |              |           |
|---|--|---|--|--|--|--|--|---|---|---------|--------------|-----------|
| FACILITY NAME AND PERMIT NUMBER:            |  |   |  |  |  |  |  | _ |   |         | oved 1/14/99 |           |
| Goose Creek Industrial Park WWTF; VA0080993 |  |   |  |  |  |  |  |   |   | OMB Num | ber 2040-008 | <b>30</b> |

| Outfall number:POLLUTANT          |                            |       |      |       |                         |       |      |       | United State            | ≈. <i>)</i><br>      |         |
|-----------------------------------|----------------------------|-------|------|-------|-------------------------|-------|------|-------|-------------------------|----------------------|---------|
| I OLLO IAMI                       | MAXIMUM DAILY<br>DISCHARGE |       |      |       | AVERAGE DAILY DISCHARGE |       |      |       |                         |                      |         |
|                                   | Conc.                      | Units | Mass | Units | Conc.                   | Units | Mass | Units | Number<br>of<br>Samples | ANALYTICAL<br>METHOD | ML/ MDL |
| 3,4 BENZO-FLUORANTHENE            |                            |       |      |       |                         |       | •    |       |                         |                      |         |
| BENZO(GHI)PERYLENE                |                            |       |      |       |                         |       |      |       |                         |                      |         |
| BENZO(K)FLUORANTHENE              |                            |       |      |       |                         |       |      | ,     |                         |                      |         |
| BIS (2-CHLOROETHOXY) METHANE      |                            |       |      |       |                         |       |      |       |                         |                      |         |
| BIS (2-CHLOROETHYL)-ETHER         |                            |       |      |       |                         |       |      |       |                         |                      |         |
| BIS (2-CHLOROISO-PROPYL)<br>ETHER |                            |       |      |       |                         |       |      |       |                         |                      |         |
| BIS (2-ETHYLHEXYL) PHTHALATE      |                            |       |      |       |                         |       |      |       |                         |                      |         |
| 4-BROMOPHENYL PHENYL ETHER        |                            |       |      |       |                         |       | ,    |       |                         |                      |         |
| BUTYL BENZYL PHTHALATE            |                            |       |      |       |                         |       |      |       |                         |                      |         |
| 2-CHLORONAPHTHALENE               |                            |       |      |       |                         |       |      |       | ,                       |                      |         |
| 4-CHLORPHENYL PHENYL ETHER        |                            |       |      |       |                         |       |      |       |                         |                      |         |
| CHRYSENE                          |                            |       |      |       |                         |       |      |       |                         |                      |         |
| DI-N-BUTYL PHTHALATE              |                            |       |      |       |                         |       |      |       |                         |                      |         |
| DI-N-OCTYL PHTHALATE              |                            |       |      |       |                         |       |      |       |                         |                      |         |
| DIBENZO(A,H) ANTHRACENE           |                            |       |      |       |                         |       |      |       |                         |                      |         |
| 1,2-DICHLOROBENZENE               |                            |       |      |       |                         |       |      |       |                         |                      |         |
| 1,3-DICHLOROBENZENE               |                            |       |      |       |                         |       |      |       |                         |                      |         |
| 1,4-DICHLOROBENZENE               |                            |       |      |       |                         |       |      |       |                         |                      |         |
| 3,3-DICHLOROBENZIDINE             |                            |       |      |       |                         |       |      |       |                         |                      |         |
| DIETHYL PHTHALATE                 |                            |       |      |       |                         |       |      |       |                         |                      |         |
| DIMETHYL PHTHALATE                |                            |       |      |       |                         |       |      |       |                         |                      |         |
| 2,4-DINITROTOLUENE                |                            |       |      |       |                         |       |      |       |                         |                      |         |
| 2,6-DINITROTOLUENE                |                            |       |      |       |                         | 1     |      |       |                         |                      |         |

| 1,2-DIPHENYLHYDRAZINE  |   |            |               |             |             |            |           |               |                |            |               |
|--|---|------------|---------------|-------------|-------------|------------|-----------|---------------|----------------|------------|---------------|
| FACILITY NAME AND PERMIT N   | IUMBER:   | :          |               |             |             |            |           | roved 1/14/99 |                |            |               |
| Goose Creek Industrial Par   | rk WW7  | ſF; VA     | 00809         | 93          |             |            |           |               |                | OMB Numi   | ber 2040-0086 |
| Outfall number:  | Outfall number: (Complete once for each outfall discharging effluent to waters of the United States.) |            |               |             |             |            |           |               |                |            |               |
| POLLUTANT  |   | MAXIML     | JM DAILY      |             |             | _          | DAILY     |               | ARGE           |            |               |
|  | Conc.   |            | HARGE<br>Mass | Units       | Conc.       | Units      | Mass      | Units         | Number         | ANALYTICAL | ML/ MDL       |
|  |   | ]          |               |             |             |            | 1         |               | of<br>Samples  | METHOD     |               |
| FLUORANTHENE   |   |            |               |             |             |            |           |               |                |            |               |
| FLUORENE   |   |            |               |             |             |            |           |               |                |            |               |
| HEXACHLOROBENZENE  | ļ   | ļ          |               |             |             |            |           |               |                |            |               |
| HEXACHLOROBUTADIENE  |   |            |               |             |             |            |           |               |                |            |               |
| HEXACHLOROCYCLO-<br>PENTADIENE   |   |            |               |             |             |            |           | <u>'</u>      |                |            |               |
| HEXACHLOROETHANE   |   |            |               |             |             |            |           |               |                |            |               |
| INDENO(1,2,3-CD)PYRENE   |   |            |               |             |             |            |           |               |                |            |               |
| ISOPHORONE   |   |            |               |             |             |            |           |               |                |            |               |
| NAPHTHALENE  | <u> </u>  |            |               |             |             |            |           |               |                |            |               |
| NITROBENZENE   |   | !          |               |             |             |            |           |               |                |            |               |
| N-NITROSODI-N-PROPYLAMINE  |   |            |               |             |             |            |           |               |                |            |               |
| N-NITROSODI- METHYLAMINE   |   |            |               |             |             |            |           |               |                |            |               |
| N-NITROSODI-PHENYLAMINE  | ļ   |            | <u> </u>      |             |             |            |           |               |                |            | ,             |
| PHENANTHRENE   |   |            | <u> </u>      | ļ <u>.</u>  | <u> </u>    |            |           |               |                |            |               |
| PYRENE   |   |            | <u> </u>      | ļ           | <u> </u>    | <u> </u>   |           |               |                |            |               |
| 1,2,4-TRICHLOROBENZENE   | avandala la   | formatio   |               |             |             |            |           |               | 1              |            |               |
| Use this space (or a separate sheet) to  | provide in  | Iformation | n on otner    | base-neu    | ıtral comp  | ounds re   | quested p | y the per     | mit writer.    | T          | т             |
| Use this space (or a separate sheet) to  | provide in  | nformatio  | n on othe     | r pollutant | s (e.g., pe | esticides) | requested | by the r      | permit writer. | <u></u>    | <u> </u>      |
| Use this space (or a separate sheet) to provide information on other pollutants (e.g., pesticides) requested by the permit writer. |   |            |               |             |             |            |           |               |                |            |               |
|  |   |            |               |             |             |            |           |               |                |            |               |
|  |   |            |               | ENI         | D OF I      | PART       | FD.       |               |                |            |               |

REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM

2A YOU MUST COMPLETE

| FACILITY NAME AND PERMIT NUMBER: |           |
|----------------------------------|-----------|
| Goose Creek Industrial Park WWTF | VA0080993 |



Form Approved 1/14/99 OMB Number 2040-0086

### SUPPLEMENTAL APPLICATION INFORMATION

#### PART E. TOXICITY TESTING DATA

POTWs meeting one or more of the following criteria must provide the results of whole effluent toxicity tests for acute or chronic toxicity for each of the facility's discharge points: 1) POTWs with a design flow rate greater than or equal to 1.0 mgd; 2) POTWs with a pretreatment program (or those that are required to have one under 40 CFR Part 403); or 3) POTWs required by the permitting authority to submit data for these parameters.

- At a minimum, these results must include quarterly testing for a 12-month period within the past 1 year using multiple species (minimum of two species), or the results from four tests performed at least annually in the four and one-half years prior to the application, provided the results show no appreciable toxicity, and testing for acute and/or chronic toxicity, depending on the range of receiving water dilution. Do not include information on combined sewer overflows in this section. All information reported must be based on data collected through analysis conducted using 40 CFR Part 136 methods. In addition, this data must comply with QA/QC requirements of 40 CFR Part 136 and other appropriate QA/QC requirements for standard methods for analytes not addressed by 40 CFR Part 136.
- In addition, submit the results of any other whole effluent toxicity tests from the past four and one-half years. If a whole effluent toxicity tests
  conducted during the past four and one-half years revealed toxicity, provide any information on the cause of the toxicity or any results of a
  toxicity reduction evaluation, if one was conducted.
- If you have already submitted any of the information requested in Part E, you need not submit it again. Rather, provide the information requested in question E.4 for previously submitted information. If EPA methods were not used, report the reasons for using alternate methods. If test summaries are available that contain all of the information requested below, they may be submitted in place of Part E.

|   | hat contain all of the information reque<br>complete Part E. Refer to the Applica | ested below, they may be submitted in p | lace of Part E. |  |  |  |  |  |  |
|---|---|---|-----------------|--|--|--|--|--|--|
| E.1. Required Tests.  |   |   |                 |  |  |  |  |  |  |
| Indicate the number of whole effluent toxicity tests conducted in the past four and one-half years.   |   |   |                 |  |  |  |  |  |  |
| chronicacute  |   |   |                 |  |  |  |  |  |  |
| E.2. Individual Test Data. Complete the following chart for each whole effluent toxicity test conducted in the last four and one-half years. Allow one column per test (where each species constitutes a test). Copy this page if more than three tests are being reported. |   |   |                 |  |  |  |  |  |  |
|   | Test number:  | Test number:                            | Test number:    |  |  |  |  |  |  |
| a. Test information.  |   |   |                 |  |  |  |  |  |  |
| Test species & test method number   |   |   |                 |  |  |  |  |  |  |
| Age at initiation of test   |   |   |                 |  |  |  |  |  |  |
| Outfall number  |   |   |                 |  |  |  |  |  |  |
| Dates sample collected  |   |   |                 |  |  |  |  |  |  |
| Date test started   |   |   |                 |  |  |  |  |  |  |
| Duration  |   |   |                 |  |  |  |  |  |  |
| b. Give toxicity test methods followed  | d.  |   |                 |  |  |  |  |  |  |
| Manual title  |   |   |                 |  |  |  |  |  |  |
| Edition number and year of publication  |   |   |                 |  |  |  |  |  |  |
| Page number(s)  |   |   |                 |  |  |  |  |  |  |
| c. Give the sample collection method  | d(s) used. For multiple grab samples,   | indicate the number of grab samples us  | sed.            |  |  |  |  |  |  |
| 24-Hour composite   |   |   |                 |  |  |  |  |  |  |
| Grab  |   |   |                 |  |  |  |  |  |  |
| d. Indicate where the sample was tal  | ken in relation to disinfection. (Check a   | all that apply for each)                |                 |  |  |  |  |  |  |
| Before disinfection   |   |   |                 |  |  |  |  |  |  |
| After disinfection  |   |   |                 |  |  |  |  |  |  |
| After dechlorination  |   |   |                 |  |  |  |  |  |  |

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|  | Test number:                                 | Test number:                | Test number: |  |  |  |  |  |  |  |  |
|--|--|-----------------------------|--------------|--|--|--|--|--|--|--|--|
| e. Describe the point in the treatment process at which the sample was collected.                            |  |                             |              |  |  |  |  |  |  |  |  |
| Sample was collected:  |  |                             |              |  |  |  |  |  |  |  |  |
| f. For each test, include whether the test was intended to assess chronic toxicity, acute toxicity, or both. |  |                             |              |  |  |  |  |  |  |  |  |
| Chronic toxicity   |  |                             |              |  |  |  |  |  |  |  |  |
| Acute toxicity   |  |                             |              |  |  |  |  |  |  |  |  |
| g. Provide the type of test performed  |  |                             |              |  |  |  |  |  |  |  |  |
| Static   |  |                             |              |  |  |  |  |  |  |  |  |
| Static-renewal   |  |                             |              |  |  |  |  |  |  |  |  |
| Flow-through   |  |                             |              |  |  |  |  |  |  |  |  |
| h. Source of dilution water. If laborate   | tory water, specify type; if receiving water | ater, specify source.       |              |  |  |  |  |  |  |  |  |
| Laboratory water   |  |                             |              |  |  |  |  |  |  |  |  |
| Receiving water  | •  |                             |              |  |  |  |  |  |  |  |  |
| i. Type of dilution water. It salt water   | r, specify "natural" or type of artificial s | ea salts or brine used.     |              |  |  |  |  |  |  |  |  |
| Fresh water  |  |                             |              |  |  |  |  |  |  |  |  |
| Salt water   |  |                             |              |  |  |  |  |  |  |  |  |
| j. Give the percentage effluent used for all concentrations in the test series.                              |  |                             |              |  |  |  |  |  |  |  |  |
|  |  |                             |              |  |  |  |  |  |  |  |  |
|  |  |                             |              |  |  |  |  |  |  |  |  |
|  |  |                             |              |  |  |  |  |  |  |  |  |
| k. Parameters measured during the  | test. (State whether parameter meets         | test method specifications) |              |  |  |  |  |  |  |  |  |
| рН   |  |                             |              |  |  |  |  |  |  |  |  |
| Salinity   |  |                             |              |  |  |  |  |  |  |  |  |
| Temperature  |  |                             |              |  |  |  |  |  |  |  |  |
| Ammonia  |  |                             |              |  |  |  |  |  |  |  |  |
| Dissolved oxygen   |  |                             |              |  |  |  |  |  |  |  |  |
| I. Test Results.   |  |                             |              |  |  |  |  |  |  |  |  |
| Acute:   |  |                             |              |  |  |  |  |  |  |  |  |
| Percent survival in 100% effluent  | %  | %                           | %            |  |  |  |  |  |  |  |  |
| LC <sub>50</sub>   |  | -                           | ,            |  |  |  |  |  |  |  |  |
| 95% C.I.   | %  | %                           | %            |  |  |  |  |  |  |  |  |
| Control percent survival   | %  | %                           | %            |  |  |  |  |  |  |  |  |
| Other (describe)   |  |                             |              |  |  |  |  |  |  |  |  |

FACILITY NAME AND PERMIT NUMBER: Form Approved 1/14/99 OMB Number 2040-0086 Goose Creek Industrial Park WWTF, VA0080993 Chronic: NOEC % % % % % % IC<sub>25</sub> % Control percent survival % % Other (describe) m. Quality Control/Quality Assurance. Is reference toxicant data available? Was reference toxicant test within acceptable bounds? What date was reference toxicant test run (MM/DD/YYYY)? Other (describe) E.3. Toxicity Reduction Evaluation. Is the treatment works involved in a Toxicity Reduction Evaluation? If yes, describe: \_Yes \_\_\_No E.4. Summary of Submitted Biomonitoring Test Information. If you have submitted biomonitoring test information, or information regarding the cause of toxicity, within the past four and one-half years, provide the dates the information was submitted to the permitting authority and a summary of the results. Date submitted: (MM/DD/YYYY) Summary of results: (see instructions)

END OF PART E.

REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM

2A YOU MUST COMPLETE.



Goose Creek Industrial Park WWTF; VA0080993

# **SUPPLEMENTAL APPLICATION INFORMATION**

# PART F. INDUSTRIAL USER DISCHARGES AND RCRA/CERCLA WASTES

All treatment works receiving discharges from significant industrial users or which receive RCRA, CERCLA, or other remedial wastes must complete Part F.

| com  | plete Part F.  |
|------|--|
| GE   | NERAL INFORMATION:   |
| F.1. | Pretreatment Program. Does the treatment works have, or is it subject to, an approved pretreatment program?  |
| F.2. | Number of Significant Industrial Users (SIUs) and Categorical Industrial Users (CIUs). Provide the number of each of the following types of industrial users that discharge to the treatment works.  |
|      | a. Number of non-categorical SIUs.   |
|      | b. Number of CIUs.   |
| SIG  | INIFICANT INDUSTRIAL USER INFORMATION:   |
|      | ply the following information for each SIU. If more than one SIU discharges to the treatment works, copy questions F.3 through F.8 and ride the information requested for each SIU.  |
| F.3. | <b>Significant Industrial User Information.</b> Provide the name and address of each SIU discharging to the treatment works. Submit additional pages as necessary.   |
|      | Name:  |
|      | Mailing Address:   |
| F.4. | Industrial Processes. Describe all of the industrial processes that affect or contribute to the SIU's discharge.   |
| F.5. | discharge.   |
|      | Principal product(s):  |
|      | Raw material(s):   |
| F.6. | Flow Rate.   |
|      | Process wastewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.      gpd (                           |
|      |  |
|      | <ul> <li>Non-process wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection system in<br/>gallons per day (gpd) and whether the discharge is continuous or intermittent.</li> </ul> |
|      | gpd (continuous orintermittent)  |
| F.7. | Pretreatment Standards. Indicate whether the SIU is subject to the following:  |
|      | a. Local limitsYesNo   |
|      | b. Categorical pretreatment standardsYesNo   |
|      | If subject to categorical pretreatment standards, which category and subcategory?  |
|      |  |

**FACILITY NAME AND PERMIT NUMBER:** Form Approved 1/14/99 OMB Number 2040-0086 Goose Creek Industrial Park WWTF, VA0080993 F.8. Problems at the Treatment Works Attributed to Waste Discharged by the SIU. Has the SIU caused or contributed to any problems (e.g., upsets, interference) at the treatment works in the past three years? \_Yes\_\_ No If yes, describe each episode. RCRA HAZARDOUS WASTE RECEIVED BY TRUCK, RAIL, OR DEDICATED PIPELINE: F.9. RCRA Waste. Does the treatment works receive or has it in the past three years received RCRA hazardous waste by truck, rail, or dedicated pipe? \_\_\_\_Yes \_\_\_No (go to F.12.) F.10. Waste Transport. Method by which RCRA waste is received (check all that apply): **Dedicated Pipe** F.11. Waste Description. Give EPA hazardous waste number and amount (volume or mass, specify units). EPA Hazardous Waste Number Amount Units CERCLA (SUPERFUND) WASTEWATER, RCRA REMEDIATION/CORRECTIVE **ACTION WASTEWATER, AND OTHER REMEDIAL ACTIVITY WASTEWATER:** F.12. Remediation Waste. Does the treatment works currently (or has it been notified that it will) receive waste from remedial activities? Yes (complete F.13 through F.15.) Provide a list of sites and the requested information (F.13 - F.15.) for each current and future site. F.13. Waste Origin. Describe the site and type of facility at which the CERCLA/RCRA/or other remedial waste originates (or is expected to originate in the next five years). F.14. Pollutants. List the hazardous constituents that are received (or are expected to be received). Include data on volume and concentration, if known. (Attach additional sheets if necessary). F.15. Waste Treatment. a. Is this waste treated (or will it be treated) prior to entering the treatment works? If yes, describe the treatment (provide information about the removal efficiency): b. Is the discharge (or will the discharge be) continuous or intermittent? Continuous \_Intermittent If intermittent, describe discharge schedule. END OF PART F.

REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM

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## SUPPLEMENTAL APPLICATION INFORMATION

### PART G. COMBINED SEWER SYSTEMS

If the treatment works has a combined sewer system, complete Part G.

- G.1. System Map. Provide a map indicating the following: (may be included with Basic Application Information)
  - a. All CSO discharge points.
  - b. Sensitive use areas potentially affected by CSOs (e.g., beaches, drinking water supplies, shellfish beds, sensitive aquatic ecosystems, and outstanding natural resource waters).
  - c. Waters that support threatened and endangered species potentially affected by CSOs.
- **G.2. System Diagram.** Provide a diagram, either in the map provided in G.1. or on a separate drawing, of the combined sewer collection system that includes the following information:
  - a. Locations of major sewer trunk lines, both combined and separate sanitary.
  - b. Locations of points where separate sanitary sewers feed into the combined sewer system.
  - c. Locations of in-line and off-line storage structures.
  - d. Locations of flow-regulating devices.
  - e. Locations of pump stations.

| cso (   | OUTFALLS     | <b>ኔ</b> :             |   |               |   |
|---------|--------------|------------------------|---|---------------|---|
| Compl   | ete questior | ns G.3 throug          | gh G.6 once <u>for each CSO discharge point</u> |               |   |
| 3.3. De | escription o | f Outfall.             |   |               |   |
| а       | . Outfall nu | ımber                  |   |               |   |
| b       | . Location   |                        | (City or town, if applicable)                   | (Zip Code)    |   |
|         |              |                        | (County)  | (State)       | - |
|         |              |                        | (Latitude)                                      | (Longitude)   | - |
| c       | . Distance   | from shore (if         | applicable)                                     | ft.           |   |
| d       | . Depth bel  | low surface (if        | applicable)                                     | ft.           |   |
| е       | . Which of   | the following v        | were monitored during the last year for this C  | SO?           |   |
|         | Rain         | nfall<br>O flow volume | CSO pollutant concentrations                    | CSO frequency |   |
| f.      | How man      | ıy stom events         | s were monitored during the last year?          |               |   |
| G.4. C  | SO Events.   |                        |   |               |   |
| а       | . Give the r |                        | O events in the last year.                      |               |   |
| ь.      | Give the s   |                        | actual orapprox.)                               |               |   |
| D       | . Give uie a |                        | on per CSO event.                               |               |   |
|         |              | nours (                | actual or approx.)                              |               |   |

|      | c.  | Give the average volume per CSO event.   |
|------|-----|--|
|      |     | million gallons ( actual or approx.)   |
|      | d.  | Give the minimum rainfall that caused a CSO event in the last year.  |
|      |     | inches of rainfall   |
| G.5. | Des | cription of Receiving Waters.  |
|      | a.  | Name of receiving water:   |
|      | b.  | Name of watershed/river/stream system:   |
|      |     | United States Soil Conservation Service 14-digit watershed code (if known):  |
|      | C.  | Name of State Management/River Basin:  |
|      |     | United States Geological Survey 8-digit hydrologic cataloging unit code (if known):  |
| G.6. | cso | Operations.  |
|      |     | scribe any known water quality impacts on the receiving water caused by this CSO (e.g., permanent or intermittent beach closings, permanent or emittent shell fish bed closings, fish kills, fish advisories, other recreational loss, or violation of any applicable State water quality standard). |
|      |     |  |
|      |     | END OF PART G.   |
| RE   | FE  | R TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM 2A YOU MUST COMPLETE.   |

## VPDES SEWAGE SLUDGE PERMIT APPLICATION FORM

## **SCREENING INFORMATION**

This application is divided into sections. Sections A pertain to all applicants. The applicability of Sections B, C and D depend on your facility's sewage sludge use or disposal practices. The information provided on this page will help you determine which sections to fill out.

| 1,   | All applicants must complete Section A (General Information).                                 |  |  |  |  |  |
|--|---|--|--|--|--|--|
| 2. Will this facility generate sewage sludge? X Yes No |   |  |  |  |  |  |
|  | Will thi  | s facility derive a material from sewage sludge?Yes _X_No  |  |  |  |  |
|  | •   | Inswered Yes to either, complete Section B (Generation Of Sewage Sludge Or Preparation Of A Material From Sewage Sludge).  |  |  |  |  |
| 3.   | Will thi  | is facility apply sewage sludge to the land?Yes _X_No  |  |  |  |  |
|  | Will sev  | wage sludge from this facility be applied to the land? Yes X No  |  |  |  |  |
|  | If you answered No to both questions above, skip Section C.                                   |  |  |  |  |  |
|  | If you answered Yes to either, answer the following three questions:                          |  |  |  |  |  |
|  | a.  | Will the sewage sludge from this facility meet the ceiling concentrations, pollutant concentrations, Class A pathogen reduction requirements and one of the vector attraction reduction requirements 1-8, as identified in the instructions? YesNo |  |  |  |  |
|  | b.  | Will sewage sludge from this facility be placed in a bag or other container for sale or give-away for application to the land?YesNo  |  |  |  |  |
|  | c.  | Will sewage sludge from this facility be sent to another facility for treatment or blending?YesNo  |  |  |  |  |
|  | If you answered No to all three, complete Section C (Land Application Of Bulk Sewage Sludge). |  |  |  |  |  |
|  | If you a  | answered Yes to a, b or c, skip Section C.   |  |  |  |  |
| 4.   | Do you  | own or operate a surface disposal site?Yes _X_No   |  |  |  |  |
|  | If Yes, complete Section D (Surface Disposal).  |  |  |  |  |  |
|  |   |  |  |  |  |  |

VPDESERMIT NUMBER: VA0080993

## SECTION A. GENERAL INFORMATION

All applicants must complete this section.

| 1. | Facili  | ty Information.  |  |  |  |  |  |  |
|----|---|--|--|--|--|--|--|--|
|    | a.  | Facility name: Goose Creek Industrial Park WWTF  |  |  |  |  |  |  |
|    | b.  | Contact person: Dale C. Hammes   |  |  |  |  |  |  |
|    |   | Title: General Manager   |  |  |  |  |  |  |
|    |   | Phone: 571-291-7700  |  |  |  |  |  |  |
|    | C.  | Mailing address: PO Box 4000   |  |  |  |  |  |  |
|    |   | Ashburn, VA 20146  |  |  |  |  |  |  |
|    | d.  | Facility location:   |  |  |  |  |  |  |
|    |   | Street or Route #: 42217 Cochran Mill Road   |  |  |  |  |  |  |
|    |   | County: Loudoun  |  |  |  |  |  |  |
|    |   | City or Town: Leesburg State: VA Zip: 20175  |  |  |  |  |  |  |
|    | e.  | Is this facility a Class I sludge management facility? Yes X No  |  |  |  |  |  |  |
|    | f.  | Facility design flow rate: mgd   |  |  |  |  |  |  |
|    | g.  | Total population served: 12 businesses   |  |  |  |  |  |  |
|    | h. Indicate the type of facility:   |  |  |  |  |  |  |  |
|    | •••   | X Publicly owned treatment works (POTW)  |  |  |  |  |  |  |
|    |   | Privately owned treatment works  |  |  |  |  |  |  |
|    |   | Federally owned treatment works  |  |  |  |  |  |  |
|    |   | Blending or treatment operation  |  |  |  |  |  |  |
|    |   | Surface disposal site  |  |  |  |  |  |  |
|    |   | Other (describe):  |  |  |  |  |  |  |
|    |   | Outer (describe).  |  |  |  |  |  |  |
| 2. | Applicant Information. If the applicant is different from the above, provide the following: |  |  |  |  |  |  |  |
| ۷. | a.  | Applicant name: Loudoun County Sanitation Authority  |  |  |  |  |  |  |
|    | а.<br>b.  | Mailing address: PO Box 4000   |  |  |  |  |  |  |
|    | υ.  | Ashburn, VA. 20146   |  |  |  |  |  |  |
|    |   | Ashowii, VA. 20170   |  |  |  |  |  |  |
|    | c.  | Contact person: Bruce Ringrose   |  |  |  |  |  |  |
|    | ٠.  | Title: Manager, Community Systems  |  |  |  |  |  |  |
|    |   | Phone: 571-291-7835  |  |  |  |  |  |  |
|    | d.  | Is the applicant the owner or operator (or both) of this facility?   |  |  |  |  |  |  |
|    | ч.  | X owner X operator   |  |  |  |  |  |  |
|    | e.  | Should correspondence regarding this permit be directed to the facility or the applicant? (Check one)            |  |  |  |  |  |  |
|    | Ų.  | facility X applicant   |  |  |  |  |  |  |
|    |   | upproduc   |  |  |  |  |  |  |
| 3. | Permi   | it Information.  |  |  |  |  |  |  |
| ٠. | a.  | Facility's VPDES permit number (if applicable): <u>VA0080993</u>   |  |  |  |  |  |  |
|    | ъ.<br>b.  | List on this form or an attachment, all other federal, state or local permits or construction approvals received |  |  |  |  |  |  |
|    | ٥.  | or applied for that regulate this facility's sewage sludge management practices:                                 |  |  |  |  |  |  |
|    |   | Permit Number: Type of Permit:   |  |  |  |  |  |  |
|    |   | none   |  |  |  |  |  |  |
|    |   |  |  |  |  |  |  |  |
|    |   | <del></del>  |  |  |  |  |  |  |
| 4. | India   | a Country. Does any generation, treatment, storage, application to land or disposal of sewage sludge from this   |  |  |  |  |  |  |
| •• |   | by occur in Indian Country? Yes X No If yes, describe:   |  |  |  |  |  |  |
|    | 1001111   | y oven in Biddin Coding,105 <u>12 100 11 905, 00001100.</u>  |  |  |  |  |  |  |

## . FACILITY NAME: Goose Creek Industrial Park WWTF



- 5. Topographic Map. Provide a topographic map or maps (or other appropriate maps if a topographic map is unavailable) that shows the following information. Maps should include the area one mile beyond all property boundaries of the facility:
  - a. Location of all sewage sludge management facilities, including locations where sewage sludge is generated, stored, treated, or disposed.
  - b. Location of all wells, springs, and other surface water bodies listed in public records or otherwise known to the applicant within 1/4 mile of the property boundaries.
- 6. Line Drawing. Provide a line drawing and/or a narrative description that identifies all sewage sludge processes that will be employed during the term of the permit including all processes used for collecting, dewatering, storing, or treating sewage sludge, the destination(s) of all liquids and solids leaving each unit, and all methods used for pathogen reduction and vector attraction reduction.

| 7. | Contractor Information. Are any operational or maintenance aspects of this facility related to sewage sludge |
|----|--|
|    | generation, treatment, use or disposal the responsibility of a contractor? X Yes No                          |
|    | If yes, provide the following for each contractor (attach additional pages if necessary).                    |

Name: Five Star Septic, Inc.
Mailing address:

Street or P.O. Box: P.O. Box 2785

City or Town: Reston State: Virginia Zip: 20195

Phone: (703) 716-0707

Contractor's Federal, State or Local Permit Number(s) applicable to this facility's sewage sludge:

Contractor's License # for Loudoun County = 998164; Permit # C0076

If the contractor is responsible for the use and/or disposal of the sewage sludge, provide a description of the service to be provided to the applicant and the respective obligations of the applicant and the contractor(s).

8. Pollutant Concentrations. Using the table below or a separate attachment, provide sewage sludge monitoring data for the pollutants which limits in sewage sludge have been established in 9 VAC 25-31-10 et seq. for this facility's expected use or disposal practices. All data must be based on three or more samples taken at least one month apart and must be no more than four and one-half years old.

| POLLUTANT  | CONCENTRATION (mg/kg dry weight) | SAMPLE<br>DATE | ANALYTICAL<br>METHOD | DETECTION LEVEL<br>FOR ANALYSIS |
|------------|----------------------------------|----------------|----------------------|---------------------------------|
| Arsenic    | <4.0 ug/g                        | 12/17/2008     | EPA 200.8            | .002 mg/l                       |
| Cadmium    | <2.0 ug/g                        | 12/17/2008     | EPA 200.8            | .0005 mg/l                      |
| Chromium   | <4.0 ug/g                        | 12/17/2008     | EPA 200.8            | .002 mg/l                       |
| Copper     | 11.1 ug/g                        | 12/17/2008     | EPA 200.8            | .002 mg/l                       |
| Lead       | <4.0 ug/g                        | 12/17/2008     | EPA 200.8            | .002 mg/l                       |
| Метсигу    | <0.5 ug/g                        | 12/17/2008     | EPA 245.1            | .0005 mg/l                      |
| Molybdenum | <4.0 mg/Kg                       | 12/17/2008     | EPA 200.8            | .002 mg/l                       |
| Nickel     | <4.0 ug/g                        | 12/17/2008     | EPA 200.8            | .002 mg/l                       |
| Selenium   | <4.0 ug/g                        | 12/17/2008     | EPA 200.8            | .005 mg/l                       |
| Zinc       | 16.0 ug/g                        | 12/17/2008     | EPA 200.8            | .01 mg/l                        |

| 9. | Certification. | Read and sub    | mit the followi | ing certification    | statement w | rith this application. | Refer to the instructions to |
|----|----------------|-----------------|-----------------|----------------------|-------------|------------------------|------------------------------|
|    | determine who  | o is an officer | for purposes o  | f this certification | n. Indicate | which parts of the a   | application you have         |
|    | completed and  | d are submitti  | ng:             |                      |             | -                      |                              |

| X Section A (General Information) |
|-----------------------------------|
|-----------------------------------|

X Section B (Generation of Sewage Sludge or Preparation of a Material Derived from Sewage Sludge)

Section C (Land Application of Bulk Sewage Sludge)

Section D (Surface Disposal)

# FACILITY NAME: Goose Creek Industrial Park WWTF

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I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name and official title:/ Pale C. Hammés, General Manager

Signature Signed

Telephone number: 571-291-7700

Upon request of the department, you must submit any other information necessary to assess sewage sludge use or disposal practices at your facility or identify appropriate permitting requirements.

VPDES CRMIT NUMBER: VA0080993

# SECTION B. GENERATION OF SEWAGE SLUDGE OR PREPARATION OF A MATERIAL DERIVED FROM SEWAGE SLUDGE

Complete this section if your facility generates sewage sludge or derives a material from sewage sludge

| 1. | Amount Generated On Site. |  |  |  |  |  |  |  |
|----|---------------------------|--|--|--|--|--|--|--|
|    | Total                     | dry metric tons per 365-day period generated at your facility: dry metric tons   |  |  |  |  |  |  |
| 2. | dispo                     | Amount Received from Off Site. If your facility receives sewage sludge from another facility for treatment, use or disposal, provide the following information for each facility from which sewage sludge is received. If you receive sewage sludge from more than one facility, attach additional pages as necessary. |  |  |  |  |  |  |
|    | -                         | Facility name: N/A   |  |  |  |  |  |  |
|    | a.                        | · ·  |  |  |  |  |  |  |
|    | b.                        | Contact Person:  |  |  |  |  |  |  |
|    |                           | Title:   |  |  |  |  |  |  |
|    |                           | Phone ( )  |  |  |  |  |  |  |
|    | c.                        | Mailing address:   |  |  |  |  |  |  |
|    |                           | Street or P.O. Box:  |  |  |  |  |  |  |
|    |                           | City or Town: State: Zip:  |  |  |  |  |  |  |
|    | d.                        | Facility Address:  |  |  |  |  |  |  |
|    |                           | (not P.O. Box)   |  |  |  |  |  |  |
|    | e.                        | Total dry metric tons per 365-day period received from this facility: dry metric tons  |  |  |  |  |  |  |
|    | f.                        | Describe, on this form or on another sheet of paper, any treatment processes known to occur at the off-site  |  |  |  |  |  |  |
|    |                           | facility, including blending activities and treatment to reduce pathogens or vector attraction characteristics:  |  |  |  |  |  |  |
|    |                           | ,,   |  |  |  |  |  |  |
|    |                           |  |  |  |  |  |  |  |
| 3. | Treat                     | ment Provided at Your Facility: N/A  |  |  |  |  |  |  |
|    | a.                        | Which class of pathogen reduction is achieved for the sewage sludge at your facility?  |  |  |  |  |  |  |
|    |                           | Class A Class B X Neither or unknown   |  |  |  |  |  |  |
|    | b.                        | Describe, on this form or another sheet of paper, any treatment processes used at your facility to reduce  |  |  |  |  |  |  |
|    | ٠.                        | pathogens in sewage sludge:  |  |  |  |  |  |  |
|    |                           | paulogeno in cerrage creage.   |  |  |  |  |  |  |
|    | ¢.                        | Which vector attraction reduction option is met for the sewage sludge at your facility?  |  |  |  |  |  |  |
|    |                           | Option 1 (Minimum 38 percent reduction in volatile solids)   |  |  |  |  |  |  |
|    |                           | Option 2 (Anaerobic process, with bench-scale demonstration)   |  |  |  |  |  |  |
|    |                           | Option 3 (Aerobic process, with bench-scale demonstration)   |  |  |  |  |  |  |
|    |                           | Option 4 (Specific oxygen uptake rate for aerobically digested sludge)   |  |  |  |  |  |  |
|    |                           | Option 5 (Aerobic processes plus raised temperature)   |  |  |  |  |  |  |
|    |                           | Option 6 (Raise pH to 12 and retain at 11.5)   |  |  |  |  |  |  |
|    |                           |  |  |  |  |  |  |  |
|    |                           | Option 7 (75 percent solids with no unstabilized solids)   |  |  |  |  |  |  |
|    |                           | Option 8 (90 percent solids with unstabilized solids)  |  |  |  |  |  |  |
|    |                           | None or unknown  |  |  |  |  |  |  |
|    | d.                        | Describe, on this form or another sheet of paper, any treatment processes used at your facility to reduce  |  |  |  |  |  |  |
|    |                           | vector attraction properties of sewage sludge:   |  |  |  |  |  |  |
|    | e.                        | Describe, on this form or another sheet of paper, any other sewage sludge treatment activities, including  |  |  |  |  |  |  |
|    |                           | blending, not identified in a - d above:   |  |  |  |  |  |  |
| 4. | Prena                     | ration of Sewage Sludge Meeting Ceiling and Pollutant Concentrations, Class A Pathogen Requirements and  |  |  |  |  |  |  |
|    |                           | of Vector Attraction Reduction Options 1-8 (EQ Sludge). N/A  |  |  |  |  |  |  |
|    |                           | rage sludge from your facility does not meet all of these criteria, skip Question 4.)  |  |  |  |  |  |  |
|    |                           |  |  |  |  |  |  |  |
|    | a.                        | Total dry metric tons per 365-day period of sewage sludge subject to this section that is applied to the land:   |  |  |  |  |  |  |
|    | 1.                        | dry metric tons  |  |  |  |  |  |  |
|    | b.                        | Is sewage sludge subject to this section placed in bags or other containers for sale or give-away?   |  |  |  |  |  |  |
|    |                           | _Yes _No   |  |  |  |  |  |  |
|    |                           |  |  |  |  |  |  |  |

Sale or Give-Away in a Bag or Other Container for Application to the Land.

5.

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6.

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|   | r if sewage sludge is covered in (   | rage studge in a pag or other container for sale or give-away prior to land application. Skip this   |  |
|---|--|--|--|
| a.  |  | 365-day period of sewage sludge placed in a bag or other container at your facility  |  |
| for sale or give-away for application to the land:  dry metric tons |  |  |  |
| b.  | Attach, with this application, a copy of all labels or notices that accompany the sewage sludge being sold or given away in a bag or other container for application to the land.  |  |  |
| (Complete does not  | apply to sewage sludge sent dir  | e from your facility is sent to another facility that provides treatment or blending. This question ectly to a land application or surface disposal site. Skip this question if the sewage sludge is sewage sludge to more than one facility, attach additional sheets as necessary.)  |  |
|   | Phone:   | 571-291-7826   |  |
| c.  | Mailing address:   | P.O. Box 4000<br>Ashburn, Va. 20146  |  |
| d.<br>e.  | List, on this form or an a   | 365-day period of sewage sludge provided to receiving facility: ~1 dry metric ton ttachment, the receiving facility's VPDES permit number as well as the numbers of local permits that regulate the receiving facility's sewage sludge use or disposal  Type of Permit:  VPDES   |  |
| f.  | facility? X Yes No Which class of pathogen Class A Describe, on this form or   | reduction is achieved for the sewage sludge at the receiving facility?  X Class B  Neither or unknown another sheet of paper, any treatment processes used at the receiving facility to age sludge: anaerobic digestion, 38% volatile reduction 95 F 40 d retention  |  |
| g.  | sewage sludge? X Yes Which vector attraction r X Option 1 (Minimum? Option 2 (Anaerobic Option 3 (Aerobic pr Option 4 (Specific ox Option 5 (Aerobic pr Option 6 (Raise pH to Option 7 (75 percent Option 8 (90 percent None unknown Describe, on this form or | ty provide additional treatment to reduce vector attraction characteristics of theNo reduction option is met for the sewage sludge at the receiving facility?  38 percent reduction in volatile solids) process, with bench-scale demonstration) occess, with bench-scale demonstration) every uptake rate for aerobically digested sludge) occesses plus raised temperature) to 12 and retain at 11.5) solids with no unstabilized solids) solids with unstabilized solids)  another sheet of paper, any treatment processes used at the receiving facility to properties of sewage sludge: |  |
| h.  | Yes <u>X</u> No  | by provide any additional treatment or blending not identified in f or g above?  |  |
| i.  | If you answered yes to f.,   | g or h above, attach a copy of any information you provide to the receiving facility and necessary information" requirement of 9 VAC 25-31-530.G.  |  |
| j   | away for application to the  | by place sewage sludge from your facility in a bag or other container for sale or givene land?Yes _X_No all labels or notices that accompany the product being sold or given away.   |  |

|    | k.       | Will the sewage sludge be transported to the receiving facility in a truck-mounted watertight tank normally used for such purposes? X Yes No. If no, provide description and specification on the vehicle used to transport the sewage sludge to the receiving facility.  Show the haul route(s) on a location map or briefly describe the haul route below and indicate the days of the week and the times of the day sewage sludge will be transported. From Goose Creek WWTP take right onto Sycolin Rd. then right onto Route 7 East turn right onto Loudoun County Pkwy then take a left onto LCSA Campus Ln. Discharge at the Septic Receiving Area. |
|----|----------|--|
| 7. |          | Application of Bulk Sewage Sludge. N/A   |
|    |          | elete Question 7.a if sewage sludge from your facility is applied to the land, unless the sewage sludge is covered in Questions 4, 5 or 6;   |
|    | a.       | te Question 7.b, c & d only if you are responsible for land application of sewage sludge.)  Total dry metric tons per 365-day period of sewage sludge applied to all land application sites:dry metric tons  |
|    | b.       | Do you identify all land application sites in Section C of this application?YesNo If no, submit a copy of the Land Application Plan (LAP) with this application (LAP should be prepared in accordance with the instructions).  |
|    | c.       | Are any land application sites located in States other than Virginia?YesNo If yes, describe, on this form or on another sheet of paper, how you notify the permitting authority for the States where the land application sites are located. Provide a copy of the notification.   |
|    |          | d. Attach a copy of any information you provide to the owner or lease holder of the land application sites to comply with the "notice and necessary" information requirement of 9 VAC 25-31-530 F and/or H (Examples may be obtained in Appendix IV).  |
| 8. |          | ce Disposal. N/A   |
|    |          | olete Question 8 if sewage sludge from your facility is placed on a surface disposal site.)  Total dry metric tons per 365-day period of sewage sludge from your facility placed on all surface disposal   |
|    | a.       | sites: dry metric tons   |
|    | b.       | Do you own or operate all surface disposal sites to which you send sewage sludge for disposal? YesNo   |
|    |          | If no, answer questions c - g for each surface disposal site that you do not own or operate. If you send sewage sludge to more than one surface disposal site, attach additional pages as necessary.  Site name or number:   |
|    | c.<br>d. | Contact person:  |
|    |          | Title: Phone: ( ) Contact is:Site OwnerSite operator   |
|    | e.       | Mailing address.   |
|    |          | Street or P.O. Box:  |
|    |          | City or Town: State: Zip:  |
|    |          | f. Total dry metric tons per 365-day period of sewage sludge from your facility placed on this surface disposal site: dry metric tons  |
|    | g.       | List, on this form or an attachment, the surface disposal site VPDES permit number as well as the numbers of   |
|    |          | all other federal, state or local permits that regulate the sewage sludge use or disposal practices at the surface   |
|    |          | disposal site: Permit Number: Type of Permit:  |
|    |          | Permit Number: Type of Permit:   |
|    |          |  |
| 9. | Incin    | eration. N/A   |
|    |          | olete Question 9 if sewage sludge from your facility is fired in a sewage sludge incinerator.)   |
|    | a.       | Total dry metric tons per 365-day period of sewage sludge from your facility fired in a sewage sludge  |
|    | b.       | incinerator: dry metric tons  Do you own or operate all sewage sludge incinerators in which sewage sludge from your facility is fired?   |
|    | U.       | YesNo If no, answer questions c - g for each sewage sludge incinerator that you do not own or operate. If you send   |
|    |          | sewage sludge to more than one sewage sludge incinerator, attach additional pages as necessary.  |

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RMIT NUMBER: VA0080993

. FACILITY NAME: Goose Creek Industrial Park WWTF

Incinerator name or number:

VPDESTRMIT NUMBER: VA0080993

| d.             | Contact person:  |  |  |  |  |  |  |
|----------------|--|--|--|--|--|--|--|
|                | Title:   |  |  |  |  |  |  |
|                | Phone: ( )   |  |  |  |  |  |  |
|                | Contact is:Incinerator OwnerIncinerator Operator   |  |  |  |  |  |  |
| e.             | Mailing address.   |  |  |  |  |  |  |
|                | Street or P.O. Box:  |  |  |  |  |  |  |
|                | City or Town: State: Zip:  |  |  |  |  |  |  |
| f.             | Total dry metric tons per 365-day period of sewage sludge from your facility fired in this sewage sludge                               |  |  |  |  |  |  |
|                | incinerator: dry metric tons   |  |  |  |  |  |  |
| $\mathbf{g}$ . | List on this form or an attachment the numbers of all other federal, state or local permits that regulate the                          |  |  |  |  |  |  |
|                | firing of sewage sludge at this incinerator:   |  |  |  |  |  |  |
|                | Permit Number: Type of Permit:   |  |  |  |  |  |  |
|                |  |  |  |  |  |  |  |
|                |  |  |  |  |  |  |  |
|                |  |  |  |  |  |  |  |
| -              | osal in a Municipal Solid Waste Landfill. N/A  |  |  |  |  |  |  |
|                | plete Question 10 if sewage sludge from your facility is placed on a municipal solid waste landfill. Provide the following information |  |  |  |  |  |  |
|                | ch municipal solid waste landfill on which sewage sludge from your facility is placed. If sewage sludge is placed on more than one     |  |  |  |  |  |  |
|                | cipal solid waste landfill, attach additional pages as necessary.)  Landfill name:   |  |  |  |  |  |  |
| a.             |  |  |  |  |  |  |  |
| b.             | Contact person: Title:   |  |  |  |  |  |  |
|                |  |  |  |  |  |  |  |
|                | Phone: ( )   |  |  |  |  |  |  |
|                | Contact is:Landfill OwnerLandfill Operator   |  |  |  |  |  |  |
| C.             | Mailing address.   |  |  |  |  |  |  |
|                | Street or P.O. Box:  |  |  |  |  |  |  |
| •              | City or Town: State: Zip:  |  |  |  |  |  |  |
| d.             | Landfill location.   |  |  |  |  |  |  |
|                | Street or Route #:   |  |  |  |  |  |  |
|                | County:  |  |  |  |  |  |  |
|                | City or Town: State: Zip:  |  |  |  |  |  |  |
| e.             | Total dry metric tons per 365-day period of sewage sludge placed in this municipal solid waste landfill:                               |  |  |  |  |  |  |
|                | dry metric tons  |  |  |  |  |  |  |
|                | f. List, on this form or an attachment, the numbers of all federal, state or local permits that regulate the                           |  |  |  |  |  |  |
|                | operation of this municipal solid waste landfill:  |  |  |  |  |  |  |
|                | Permit Number: Type of Permit:   |  |  |  |  |  |  |
|                |  |  |  |  |  |  |  |
| _              | D  |  |  |  |  |  |  |
| g.             | Does sewage sludge meet applicable requirements in the Virginia Solid Waste Management Regulation, 9                                   |  |  |  |  |  |  |
|                | VAC 20-80-10 et seq., concerning the quality of materials disposed in a municipal solid waste landfill?                                |  |  |  |  |  |  |
| 1.             | YesNo  |  |  |  |  |  |  |
| h.             | Does the municipal solid waste landfill comply with all applicable criteria set forth in the Virginia Solid                            |  |  |  |  |  |  |
|                | Waste Management Regulation, 9 VAC 20-80-10 et seq.?YesNo  |  |  |  |  |  |  |
|                | 117711 4b  |  |  |  |  |  |  |
| i.             | Will the vehicle bed or other container used to transport sewage sludge to the municipal solid waste landfill                          |  |  |  |  |  |  |
| i.             | be watertight and covered? Yes No  |  |  |  |  |  |  |
| i.             |  |  |  |  |  |  |  |

# N/A

# SEWAGE SLUDGE APPLICATION AGREEMENT

| 11112 2        | sewage studge application agreement is made   | on this date between,   |  |  |
|----------------|---|---|--|--|
| referr         | ed to here as "landowner", and  | , referred to here as the "Permittee".  |  |  |
| certai         | ("landown   | on the map attached as Exhibit A and designated there as er's land"). Permittee agrees to apply and landowner agrees to comply with of sewage sludge on landowner's land in amounts and in a manner authorized nich is held by the Permittee. |  |  |
| Lando<br>condi | owner acknowledges that the appropriate appl<br>tioning to the property. Moreover, landowned<br>to health, the following site restrictions must be  | ication of sewage sludge will be beneficial in providing fertilizer and soil er acknowledges having been expressly advised that, in order to protect e adhered to when sewage sludge receives Class B treatment for pathogen                  |  |  |
| 1.             | Food crops with harvested parts that touch not be harvested for 14 months after applie  | the sewage sludge/soil mixture and are totally above the land surface shall cation of sewage sludge;  |  |  |
| 2.             | Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after application sewage sludge when the sewage sludge remains on the land surface for four months or longer prior to incorporation into the soil;   |   |  |  |
| 3.             | Food crops with harvested parts below the surface of the land shall not be harvested for 38 months after application sewage sludge when the sewage sludge remains on the land surface for less than four months prior to incorporation into the soil;   |   |  |  |
| 4.             | Food crops, feed crops, and fiber crops shall not be harvested for 30 days after application of sewage sludge;  |   |  |  |
| 5.             | Animals shall not be grazed on the land for 30 days after application of sewage sludge;   |   |  |  |
| 6.             | Turf grown on land where sewage sludge is applied shall not be harvested for one year after application of the sewage sludge when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by the State Water Control Board; |   |  |  |
| 7.             | Public access to land with a high potential for public exposure shall be restricted for one year after application of sewage sludge;  |   |  |  |
| 8.             | Public access to land with a low potential for public exposure shall be restricted for 30 days after application of sewage sludge.  |   |  |  |
| 9.             | Tobacco, because it has been shown to accumulate cadmium, should not be grown on landowner's land for three year following the application of sewage sludge borne cadmium equal to or exceeding 0.5 kilograms/hectare (0.45 pounds/acre).   |   |  |  |
| specif         |   | s designee of the proposed schedule for sewage sludge application and indowner's land. This agreement may be terminated by either party upon  |  |  |
|                | Landowner:  | Permittee:  |  |  |
|                | Signature   | Signature   |  |  |
|                | Mailing Address   | Mailing Address   |  |  |

### SECTION D. SURFACE DISPOSAL

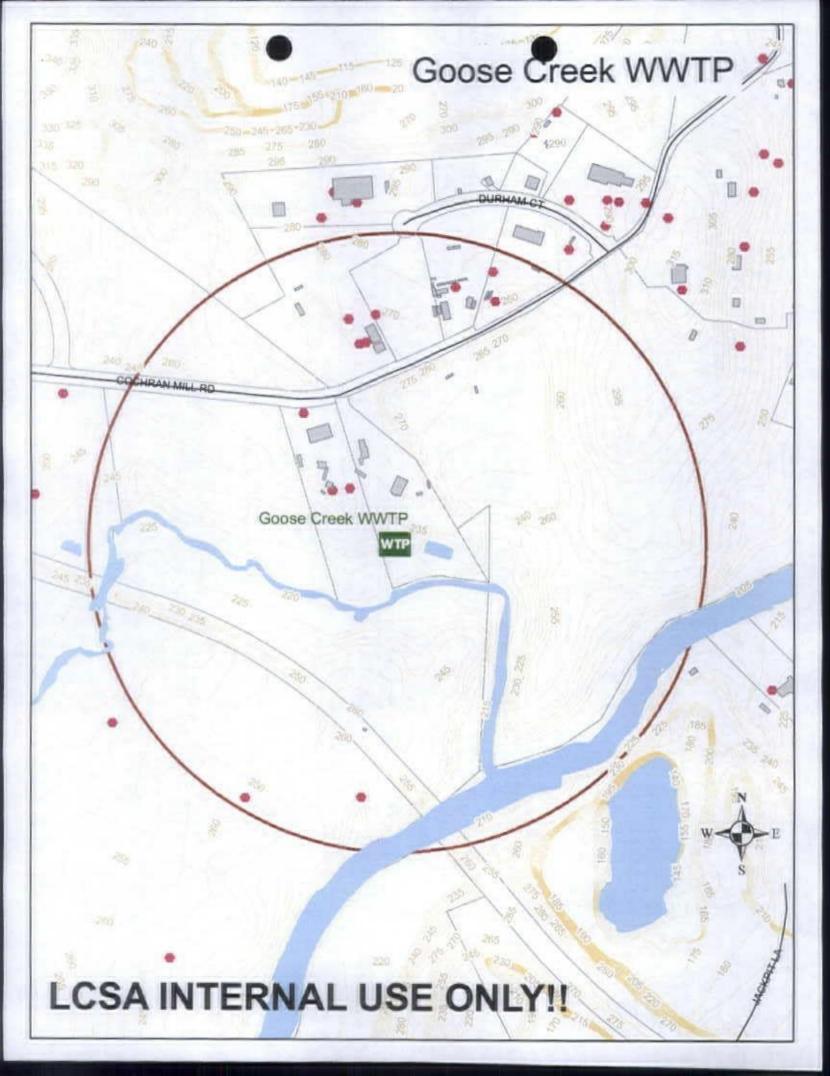
# N/A

Complete this section only if you own or operate a surface disposal site. Provide the information for each active sewage sludge unit.

|          | Information on Active Sewage Sludge Units.   |  |  |  |
|----------|--|--|--|--|
|          | Unit name or number:   |  |  |  |
| b.       | Unit location  |  |  |  |
|          | i. Street or Route#:   |  |  |  |
|          | County:  |  |  |  |
|          | City or Town: State: Zip:  |  |  |  |
|          | ii. Latitude: Longitude:   |  |  |  |
|          | Method of latitude/longitude determination   |  |  |  |
|          | USGS map Filed survey Other  |  |  |  |
|          | c. Topographic map. Provide a topographic map (or other appropriate map if a topographic map is  |  |  |  |
|          | unavailable) that shows the site location.   |  |  |  |
| d.       | Total dry metric tons of sewage sludge placed on the active sewage sludge unit per 365-day period: dry metric tons.  |  |  |  |
|          | e. Total dry metric tons of sewage sludge placed on the active sewage sludge unit over the life of the unit:  dry metric tons.   |  |  |  |
| f.       | unit: dry metric tons.  Does the active sewage sludge unit have a liner with a minimum hydraulic conductivity of   |  |  |  |
|          | 1 x 10 <sup>-7</sup> cm/sec?YesNo If yes, describe the liner or attach a description.  |  |  |  |
| g.       | Does the active sewage sludge unit have a leachate collection system?YesNo If yes, describe the leachate collection system or attach a description. Also, describe the method used for leachate disposal and provide the numbers of any federal, state or local permits for leachate disposal:                                   |  |  |  |
| h.<br>i. | If you answered no to either f or g, answer the following:  Is the boundary of the active sewage sludge unit less than 150 meters from the property line of the surface disposal site?YesNo If yes, provide the actual distance in meters:  Remaining capacity of active sewage sludge unit, in dry metric tons: dry metric tons |  |  |  |
|          | Anticipated closure date for active sewage sludge unit, if known:(MM/DD/YYYY)  Provide with this application a copy of any closure plan developed for this active sewage sludge unit.  |  |  |  |
| Sewa     | ge Sludge from Other Facilities.   |  |  |  |
| Is sev   | vage sludge sent to this active sewage sludge unit from any facilities other than yours?YesNo  |  |  |  |
|          | , provide the following information for each such facility, attach additional sheets as necessary.   |  |  |  |
| a.       | Facility name:   |  |  |  |
| b.       | Facility contact:  |  |  |  |
|          | Title:   |  |  |  |
|          | Phone: ( )   |  |  |  |
| c.       | Mailing address.   |  |  |  |
|          | Street or P.O. Box:  |  |  |  |
|          | City or Town: State: Zip:  |  |  |  |
| d.       | List, on this form or an attachment, the facility's VPDES permit number as well as the numbers of all other  |  |  |  |
|          | federal, state or local permits that regulate the facility's sewage sludge management practices:   |  |  |  |
|          | Permit Number: Type of Permit:   |  |  |  |
|          |  |  |  |  |
|          |  |  |  |  |
| e.       | Which class of pathogen reduction is achieved before sewage sludge leaves the other facility?  |  |  |  |
|          | Class AClass BNeither or unknown   |  |  |  |
| f.       | Describe, on this form or on another sheet of paper, any treatment processes used at the other facility to reduce pathogens in sewage sludge:  |  |  |  |
|          | a. b. d. f. Sewa Is sev If yes a. b. c. d.   |  |  |  |

. FACILITY NAME: Goose Creek Industral Park WWTF

|            | g.     | Which vector attraction reduction option is achieved before sewage studge leaves the other facility? Option 1 (Minimum 38 percent reduction in volatile solids) Option 2 (Anaerobic process, with bench-scale demonstration) Option 3 (Aerobic process, with bench-scale demonstration) Option 4 (Specific oxygen uptake rate for aerobically digested sludge) Option 5 (Aerobic processes plus raised temperature) Option 6 (Raise pH to 12 and retain at 11.5) Option 7 (75 percent solids with no unstabilized solids) Option 8 (90 percent solids with unstabilized solids)  None or unknown |
|------------|--------|--|
|            | h.     | Describe, on this form or another sheet of paper, any treatment processes used at the other facility to reduce vector attraction properties of sewage sludge:  |
|            | i.     | Describe, on this form or another sheet of paper, any other sewage sludge treatment activities performed by the other facility that are not identified in e - h above:   |
| 3.         | Vector | Attraction Reduction.  |
| <i>J</i> . | a.     | Which vector attraction reduction option, if any, is met when sewage sludge is placed on this active sewage sludge unit?  Option 9 (Injection below land surface)  Option 10 (Incorporation into soil within 6 hours)  Option 11 (Covering active sewage sludge unit daily)  |
|            | b.     | Describe, on this form or another sheet of paper, any treatment processes used at the active sewage sludge unit to reduce vector attraction properties of sewage sludge:   |
| 4.         | Groun  | d Water Monitoring.  |
|            | а.     | Is ground water monitoring currently conducted at this active sewage sludge unit or are ground water monitoring data otherwise available for this active sewage sludge unit?YesNo If yes, provide a copy of available ground water monitoring data. Also provide a written description of the well locations, the approximate depth to ground water, and the ground water monitoring procedures used to obtain these data.   |
|            | b.     | Has a ground water monitoring program been prepared for this active sewage sludge unit? YesNo If yes, submit a copy of the ground water monitoring program with this application.  |
|            | c.     | Have you obtained a certification from a qualified ground water scientist that the aquifer below the active sewage sludge unit has not been contaminated?YesNo If yes, submit a copy of the certification with this application.   |
| 5.         | Are yo | pecific Limits.  ou seeking site-specific pollutant limits for the sewage sludge placed on the active sewage sludge unit?  sNo If yes, submit information to support the request for site-specific pollutant limits with this application.   |





Trip to:

# 44961 Loudoun Water Way

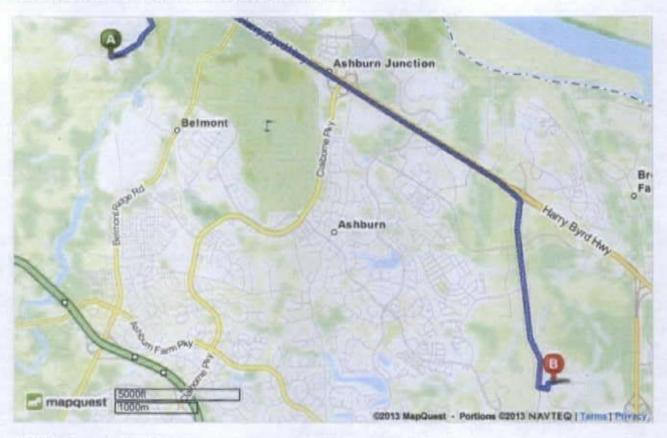
Ashburn, VA 20147 7.73 miles / 13 minutes Notes



# **42217 Cochran Mill Rd**, Leesburg, VA 20175-4613

| •   | 1. Start out going northeast on Cochran Mill Rd toward Durham Ct. Map  | <b>0.9 Mi</b><br>0.9 Mi Total  |
|-----|--|--------------------------------|
| 1   | 2. Cochran Mill Rd becomes Russell Branch Pky. Map   | <b>0.3 Mi</b><br>1.2 Mi Total  |
| 4   | 3. Turn right onto Crosstrail Blvd SE. Map<br>Crosstrail Blvd SE is 0.2 miles past Golf Club Rd<br>If you reach Village Market Blvd SE you've gone about 0.1 miles too far | <b>0.2 Mi</b><br>1.5 Mi Total  |
| 21  | 4. Merge onto VA-7 E / Harry Byrd Hwy. Map  If you are on River Creek Pky and reach Potomac Station Dr you've gone about 0.4 miles too far                                 | <b>4.1 Mi</b><br>5.5 Mi Total  |
| 21  | 5. Merge onto Loudoun County Pky / VA-607 S toward VA-267. Map   | <b>2.0 Mi</b><br>7.5 Mi Total  |
| 43  | 6. Turn left onto Aquiary Way. <u>Map</u><br>Aquiary Way is 0.9 miles past Marblehead Dr<br>If you reach Gloucester Pky you've gone about 0.2 miles too far                | <b>0.09 Mi</b><br>7.6 Mi Total |
| 4   | 7. Turn left onto Loudoun Water Way. Map   | <b>0.1 Mi</b><br>7.7 Mi Total  |
| *** | 8. <b>44961 LOUDOUN WATER WAY</b> is on the <b>right</b> . <u>Map</u> If you reach the end of Loudoun Water Way you've gone about 0.2 miles too far                        |                                |
|     | 44961 Loudoun Water Way, Ashburn, VA 20147   |                                |





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VPDE RMIT NUMBER: VA0080993

## SECTION C. LAND APPLICATION OF BULK SEWAGE SLUDGE

N/A

Complete this section for sewage sludge that is land applied unless any of the following conditions apply:

The sewage sludge mosts the Table 1 colling concentrations the Table 3 collected concentration.

The sewage sludge meets the Table 1 ceiling concentrations, the Table 3 pollutant concentrations, Class A pathogen requirements and one of the vector attraction reduction options 1-8 (fill out B.4 instead) (EQ Sludge); or

The sewage sludge is sold or given away in a bag or other container for application to the land (fill out B.5 instead); or

You provide the sewage sludge to another facility for treatment or blending (fill out B.6 instead).

| a. Are you the owner of this land application site?YesNo b. If no, provide the following information about the owner:  Name: Street or P.O. Box: City or Town: State: Zip: Phone: ( )  | Compl | ete Section  | C for every site on which the sewage sludge that you reported in B.7 is land applied.                          |  |  |  |  |  |
|--|-------|--|--|--|--|--|--|--|
| a. Site name or number: b. Site location (Complete i and ii) i. Street or Route#:  | 1.    | Ident  | fication of Land Application Site.   |  |  |  |  |  |
| b. Site location (Complete i and ii) i. Street or Route#:  |       |  |  |  |  |  |  |  |
| i. Street or Route#: County: City or Town: Latitude: Method of latitude/longitude determination USGS map Filed survey C. Topographic map. Provide a topographic map (or other appropriate map if a topographic map is unavailable) that shows the site location.  2. Owner Information. a. Are you the owner of this land application site? Yes No b. If no, provide the following information about the owner: Name: Street or P.O. Box: City or Town: Phone: ( )  3. Applier Information: a. Are you the person who applies, or who is responsible for application of, sewage sludge to this land application site? Yes No b. If no, provide the following information for the person who applies the sewage sludge: Name: Street or P.O. Box: City or Town: State: Street or P.O. Box: City or Town: State: Zip: Phone: ( )  C. List, on this form or an attachment, the numbers of all federal, state or local permits that regulate the person who applies sewage sludge to this land application site: Permit Number: Type of Permit:  4. Site Type. Identify the type of land application site from among the following: Agricultural land Reclamation site Public contact site Other. Describe  5. Vector Attraction Reduction. Are any vector attraction reduction requirements met when sewage sludge is applied to the land application site? Yes No If yes, answer a and b. a. Indicate which vector attraction reduction option is met: Option 9 (Injection below land surface) Option 10 (Injection below land surface) Option 10 (Injection below land surface) Option 10 (Injection on on another sheet of paper, any treatment processes used at the land application site Describe, on this form or on another sheet of paper, any treatment processes used at the land application site |       |  |  |  |  |  |  |  |
| County: City or Town: State: Zip: ii. Latitude: Method of latitude/longitude determination USGs map Filed survey Other  c. Topographic map. Provide a topographic map (or other appropriate map if a topographic map is unavailable) that shows the site location.  2. Owner Information. a. Are you the owner of this land application site?YesNo b. If no, provide the following information about the owner: Name: Street or P.O. Box: City or Town: Phone: ( )  3. Applier Information: a. Are you the person who applies, or who is responsible for application of, sewage sludge to this land application site?YesNo b. If no, provide the following information for the person who applies the sewage sludge: Name: Street or P.O. Box: City or Town: State: Zip: Phone: ( )  c. List, on this form or an attachment, the numbers of all federal, state or local permits that regulate the person who applies sewage sludge to this land application site: Permit Number: Type of Permit:  ——  4. Site Type. Identify the type of land application site from among the following: Agricultural land Public contact site Other. Describe  5. Vector Attraction Reduction Are any vector attraction reduction requirements met when sewage sludge is applied to the land application site? YesNo If yes, answer a and b. a. Indicate which vector attraction reduction option is met: Option 9 (Injection below land surface)Option 10 (Incorporation into soil within 6 hours) Describe, on this form or on another sheet of paper, any treatment processes used at the land application site  |       |  |  |  |  |  |  |  |
| City or Town: Zip:  ii. Latitude: Longitude: Other  C. Topographic map. Provide a topographic map of or other appropriate map if a topographic map is unavailable) that shows the site location.  2. Owner Information.  a. Are you the owner of this land application site? Yes No  b. If no, provide the following information about the owner:  |       |  |  |  |  |  |  |  |
| Method of latitude/longitude determination   |       |  | City or Town: State: Zin:  |  |  |  |  |  |
| Method of latitude/longitude determination   |       |  | ii Latitude: Longitude:  |  |  |  |  |  |
| C. Topographic map. Provide a topographic map (or other appropriate map if a topographic map is unavailable) that shows the site location.  2. Owner Information.  a. Are you the owner of this land application site?YesNo  b. If no, provide the following information about the owner:  Name:  Street or P.O. Box:  City or Town:   |       |  | Method of latitude/longitude determination   |  |  |  |  |  |
| c. Topographic map. Provide a topographic map (or other appropriate map if a topographic map is unavailable) that shows the site location.  2. Owner Information.  a. Are you the owner of this land application site?YesNo b. If no, provide the following information about the owner: Name: Street or P.O. Box: City or Town: State: Zip: Phone: ( )  3. Applier Information: a. Are you the person who applies, or who is responsible for application of, sewage sludge to this land application site?YesNo b. If no, provide the following information for the person who applies the sewage sludge: Name: Street or P.O. Box: City or Town: State: Zip: Phone: ( ) c. List, on this form or an attachment, the numbers of all federal, state or local permits that regulate the person who applies sewage sludge to this land application site:  Permit Number: Type of Permit:  4. Site Type. Identify the type of land application site from among the following:  |       |  |  |  |  |  |  |  |
| that shows the site location.  2. Owner Information. a. Are you the owner of this land application site?YesNo b. If no, provide the following information about the owner:     Name:     Street or P.O. Box:     City or Town: State: Zip:     Phone: ( )  3. Applier Information: a. Are you the person who applies, or who is responsible for application of, sewage sludge to this land application site?YesNo b. If no, provide the following information for the person who applies the sewage sludge:     Name:     Street or P.O. Box:     City or Town: State: Zip:     Phone: ( ) c. List, on this form or an attachment, the numbers of all federal, state or local permits that regulate the person who applies sewage sludge to this land application site:     Permit Number: Type of Permit:   |       | c  | Tonographic man Provide a tonographic man (or other appropriate man if a tonographic man is unavailable        |  |  |  |  |  |
| a. Are you the owner of this land application site?YesNo b. If no, provide the following information about the owner: Name: Street or P.O. Box: City or Town:  |       | v.   |  |  |  |  |  |  |
| b. If no, provide the following information about the owner: Name: Street or P.O. Box: City or Town:   | 2.    | Owne   | er Information.  |  |  |  |  |  |
| Name: Street or P.O. Box: City or Town: Phone: ( )  3. Applier Information: a. Are you the person who applies, or who is responsible for application of, sewage sludge to this land application site?YesNo b. If no, provide the following information for the person who applies the sewage sludge: Name: Street or P.O. Box: City or Town:   |       | a.   | Are you the owner of this land application site?YesNo  |  |  |  |  |  |
| Street or P.O. Box:  |       | b.   | If no, provide the following information about the owner:  |  |  |  |  |  |
| City or Town:  |       |  | Name:  |  |  |  |  |  |
| Phone: ( )  Applier Information:  a. Are you the person who applies, or who is responsible for application of, sewage sludge to this land application site?YesNo  b. If no, provide the following information for the person who applies the sewage sludge:  Name:  Street or P.O. Box:  City or Town: State:Zip:  Phone: ( )  c. List, on this form or an attachment, the numbers of all federal, state or local permits that regulate the person who applies sewage sludge to this land application site:  Permit Number:  |       |  | Street or P.O. Box:  |  |  |  |  |  |
| 3. Applier Information: a. Are you the person who applies, or who is responsible for application of, sewage sludge to this land application site?YesNo b. If no, provide the following information for the person who applies the sewage sludge: Name: Street or P.O. Box: City or Town: State: Zip: Phone: ( ) c. List, on this form or an attachment, the numbers of all federal, state or local permits that regulate the person who applies sewage sludge to this land application site: Permit Number: Type of Permit:  4. Site Type. Identify the type of land application site from among the following:Agricultural land Reclamation site Forest Dother. Describe  5. Vector Attraction Reduction. Are any vector attraction reduction requirements met when sewage sludge is applied to the land application site? Yes No  If yes, answer a and b. a. Indicate which vector attraction reduction option is met: Option 9 (Injection below land surface) Option 10 (Incorporation into soil within 6 hours) b. Describe, on this form or on another sheet of paper, any treatment processes used at the land application site  |       |  | City or Town: State: Zip:  |  |  |  |  |  |
| a. Are you the person who applies, or who is responsible for application of, sewage sludge to this land application site?YesNo  b. If no, provide the following information for the person who applies the sewage sludge:     Name:     Street or P.O. Box:     City or Town: State: Zip:     Phone: ( )  c. List, on this form or an attachment, the numbers of all federal, state or local permits that regulate the person who applies sewage sludge to this land application site:     Permit Number: Type of Permit:   4. Site Type. Identify the type of land application site from among the following:     Agricultural land   |       |  | Phone: ( )   |  |  |  |  |  |
| application site?YesNo  b.   | 3.    | Appl   |  |  |  |  |  |  |
| b. If no, provide the following information for the person who applies the sewage sludge:  Name:  Street or P.O. Box:  City or Town:  Phone: ( )  c. List, on this form or an attachment, the numbers of all federal, state or local permits that regulate the person who applies sewage sludge to this land application site:  Permit Number:  Type of Permit:  Type of Permit:  Agricultural land  Reclamation site  Public contact site  Other. Describe  5. Vector Attraction Reduction.  Are any vector attraction reduction requirements met when sewage sludge is applied to the land application site?  YesNo If yes, answer a and b.  Indicate which vector attraction reduction option is met:  Option 9 (Injection below land surface)  Option 10 (Incorporation into soil within 6 hours)  Describe, on this form or on another sheet of paper, any treatment processes used at the land application site  |       | a.   |  |  |  |  |  |  |
| Name: Street or P.O. Box: City or Town: Phone: ( ) C. List, on this form or an attachment, the numbers of all federal, state or local permits that regulate the person who applies sewage sludge to this land application site: Permit Number: Type of Permit:  Agricultural land Reclamation site Public contact site Other. Describe  5. Vector Attraction Reduction. Are any vector attraction reduction requirements met when sewage sludge is applied to the land application site? Yes No If yes, answer a and b. a. Indicate which vector attraction reduction option is met: Option 9 (Injection below land surface) Option 10 (Incorporation into soil within 6 hours) Describe, on this form or on another sheet of paper, any treatment processes used at the land application site   |       |  |  |  |  |  |  |  |
| Street or P.O. Box: City or Town:  |       | b.   |  |  |  |  |  |  |
| City or Town: State: Zip: Phone: ( )  c. List, on this form or an attachment, the numbers of all federal, state or local permits that regulate the person who applies sewage sludge to this land application site:  Permit Number:  4. Site Type. Identify the type of land application site from among the following:Agricultural landReclamation siteForestPublic contact siteOther. Describe  5. Vector Attraction Reduction.  Are any vector attraction reduction requirements met when sewage sludge is applied to the land application site?YesNo If yes, answer a and b. a. Indicate which vector attraction reduction option is met:Option 9 (Injection below land surface)Option 10 (Incorporation into soil within 6 hours) b. Describe, on this form or on another sheet of paper, any treatment processes used at the land application site  |       |  |  |  |  |  |  |  |
| Phone: ( )  C. List, on this form or an attachment, the numbers of all federal, state or local permits that regulate the person who applies sewage sludge to this land application site:    Permit Number:   |       |  | Street or P.O. Box:  |  |  |  |  |  |
| c. List, on this form or an attachment, the numbers of all federal, state or local permits that regulate the person who applies sewage sludge to this land application site:    Permit Number:   |       |  | City or Town: State: Zip:  |  |  |  |  |  |
| who applies sewage sludge to this land application site:    Permit Number:   Type of Permit:   |       |  | , ,  |  |  |  |  |  |
| 4. Site Type. Identify the type of land application site from among the following: Agricultural landReclamation siteForestPublic contact siteOther. Describe  5. Vector Attraction Reduction.  Are any vector attraction reduction requirements met when sewage sludge is applied to the land application site?YesNo If yes, answer a and b. a. Indicate which vector attraction reduction option is met:Option 9 (Injection below land surface)Option 10 (Incorporation into soil within 6 hours) b. Describe, on this form or on another sheet of paper, any treatment processes used at the land application site   |       | C.   |  |  |  |  |  |  |
| 4. Site Type. Identify the type of land application site from among the following: Agricultural landReclamation siteForestPublic contact siteOther. Describe  5. Vector Attraction Reduction.  Are any vector attraction reduction requirements met when sewage sludge is applied to the land application site? YesNo If yes, answer a and b.  a. Indicate which vector attraction reduction option is met: Option 9 (Injection below land surface) Option 10 (Incorporation into soil within 6 hours)  b. Describe, on this form or on another sheet of paper, any treatment processes used at the land application site  |       | who applies sewage sludge to this land application site: |  |  |  |  |  |  |
|  |       |  | Permit Number: Type of Permit:   |  |  |  |  |  |
|  |       |  |  |  |  |  |  |  |
|  |       |  |  |  |  |  |  |  |
|  | 1     | Site 7   | Type. Identify the type of land application site from among the following:                                     |  |  |  |  |  |
| Other. Describe  5. Vector Attraction Reduction.  Are any vector attraction reduction requirements met when sewage sludge is applied to the land application site? YesNo If yes, answer a and b.  a. Indicate which vector attraction reduction option is met: Option 9 (Injection below land surface) Option 10 (Incorporation into soil within 6 hours)  b. Describe, on this form or on another sheet of paper, any treatment processes used at the land application site   | ••    | A  | Agricultural land Reclamation site Forest  |  |  |  |  |  |
| Are any vector attraction reduction requirements met when sewage sludge is applied to the land application site? YesNo If yes, answer a and b. a. Indicate which vector attraction reduction option is met: Option 9 (Injection below land surface) Option 10 (Incorporation into soil within 6 hours) b. Describe, on this form or on another sheet of paper, any treatment processes used at the land application site   |       | Pu   | blic contact siteOther. Describe   |  |  |  |  |  |
| Are any vector attraction reduction requirements met when sewage sludge is applied to the land application site? YesNo If yes, answer a and b. a. Indicate which vector attraction reduction option is met: Option 9 (Injection below land surface) Option 10 (Incorporation into soil within 6 hours) b. Describe, on this form or on another sheet of paper, any treatment processes used at the land application site   | 5.    | Vecto  | r Attraction Reduction.  |  |  |  |  |  |
| <ul> <li>a. Indicate which vector attraction reduction option is met:  Option 9 (Injection below land surface)  Option 10 (Incorporation into soil within 6 hours)</li> <li>b. Describe, on this form or on another sheet of paper, any treatment processes used at the land application site</li> </ul>   |       | Are a  | ny vector attraction reduction requirements met when sewage sludge is applied to the land application site?    |  |  |  |  |  |
| Option 9 (Injection below land surface) Option 10 (Incorporation into soil within 6 hours) b. Describe, on this form or on another sheet of paper, any treatment processes used at the land application site   |       |  |  |  |  |  |  |  |
| Describe, on this form or on another sheet of paper, any treatment processes used at the land application site   |       | а.   |  |  |  |  |  |  |
| b. Describe, on this form or on another sheet of paper, any treatment processes used at the land application site  |       |  |  |  |  |  |  |  |
| to reduce the vector attraction properties of sewage sludge:   |       | <b>L</b>   |  |  |  |  |  |  |
| to reduce the vector attraction properties of sewage sludge:   |       | D.   | Describe, on this form or on another sneet of paper, any treatment processes used at the land application site |  |  |  |  |  |
|  |       |  | to reduce the vector attraction properties of sewage sludge:   |  |  |  |  |  |
|  |       |  |  |  |  |  |  |  |

Cumulative Loadings and Remaining Allotments.

6.

(Complete Question 6 only if the sewage sludge applied to this site since July 20, 1993 is subject to the cumulative pollutant loading rates (CPLRs) - see instructions.) Have you contacted DEQ or the permitting authority in the state where the sewage sludge subject to the CPLRs will be applied to ascertain whether bulk sewage sludge subject to the CPLRs has been applied to this site since July 20, 1993? \_\_Yes \_\_No If no, sewage sludge subject to the CPLRs may not be applied to this site. If yes, provide the following information: Permitting authority: Contact person: Phone:() Based upon this inquiry, has bulk sewage sludge subject to the CPLRs been applied to this site since July 20, b. 1993? Yes No If no, skip the rest of Question 6. If yes, answer questions c - e. Site size, in hectares: (one hectare = 2.471 acres) c. Provide the following information for every facility other than yours that is sending or has sent sewage d. sludge subject to the CPLRs to this site since July 20, 1993. If more than one such facility sends sewage sludge to this site, attach additional pages as necessary. Facility name: Facility contact: Title: Phone: ( ) Mailing address. Street or P.O. Box: City or Town: State: Zip: Provide the total loading and allotment remaining, in kg/hectare, for each of the following pollutants: e. Cumulative loading Allotment remaining Arsenic Cadmium Copper Lead Mercury Nickel Selenium Zinc Sludge Characterization. Use the table below or a separate attachment, provide at least one analysis for each

Complete Questions 7-12 below only if you apply sewage sludge, or you are responsible for land application of sewage sludge. Information required by these questions may be prepared as attachments to this form. Skip the following questions if you contract land application to someone else (as indicated under Section A.7) who is responsible for the operation.

7. parameter.

PCBs (mg/kg)

pH (S. U.)

Percent Solids (%)

Ammonium Nitrogen (mg/kg)

Nitrate Nitrogen (mg/kg)

Total Kjeldahl Nitrogen (mg/kg)

Total Phosphorus (mg/kg)

Total Potassium (mg/kg)

Alkalinity as CaCO<sub>3</sub> (mg/kg)

Lime treated sludge (10% or more lime by dry weight) should be analyzed for percent CaCO<sub>3</sub>.

8. Storage Requirements.

Existing and proposed sludge storage facilities must provide an estimated annual sludge balance on a monthly basis incorporating such factors as storage capacity, sludge production and land application schedule. Include pertinent calculations justifying storage requirements.

Proposed sludge storage facilities must also provide the following information:

- a. A sludge storage site layout on a 7.5 minute topographic quadrangle or other appropriate scaled map to show the following topographic features of the surrounding landscape to a distance of 0.25 mile. Clearly mark the property line.
  - 1) Water wells, abandoned or operating
  - 2) Surface waters
  - 3) Springs
  - 4) Public water supply(s)
  - 5) Sinkholes
  - 6) Underground and/or surface mines
  - 7) Mine pool (or other) surface water discharge points
  - 8) Mining spoil piles and mine dumps
  - 9) Quarry(s)
  - 10) Sand and gravel pits
  - 11) Gas and oil wells
  - 12) Diversion ditch(s)
  - 13) Agricultural drainage ditch(s)
  - 14) Occupied dwellings, including industrial and commercial establishments
  - 15) Landfills or dumps
  - 16) Other unlined impoundments
  - 17) Septic tanks and drainfields
  - 18) Injection wells
  - 19) Rock outcrops
- b. A topographic map of sufficient detail to clearly show the following information:
  - 1) Maximum and minimum percent slopes
  - 2) Depressions on the site that may collect water
  - 3) Drainageways that may attribute to rainfall run-on to or runoff from this site
  - 4) Portions of the site (if any) which are located with the 100-year floodplain and how the storage facility will be protected from flooding
- c. Data and specifications for the storage facility lining material.
- d. Plan and cross-sectional views of the storage facility.
- e. Depth from the bottom of the storage facility to the seasonal high water table and separation distance to the permanent water table.
- 9. Land Area Requirements. Provide calculations justifying the land area requirements for land application of sewage sludge taking into consideration average soil productivity group, crop(s) to be grown and most limiting factor(s) of the sewage sludge, specifically Plant Available Nitrogen (PAN), Calcium Carbonate Equivalence (CCE), and metal loadings (CPLR sewage sludge only), where applicable. Relate PAN, CCE, and metal loadings to demonstrate the most limiting factor for land application.
- 10. Landowner Agreement Forms. Provide a properly completed Sewage Sludge Application Agreement Form (attached) for each landowner if sewage sludge is to be applied onto land not owned by the applicant.
- 11. Ground Water Monitoring.

Are any ground water monitoring data available for this land application site? \_\_Yes \_\_No If yes, submit the ground water monitoring data with this permit application. Also submit a written description of the well locations, approximate depth to ground water, and the ground water monitoring procedures used to obtain these data.

12. Land Application Site Information.

(Complete Items a-d for sites receiving infrequent application - land application of sewage sludge up to the agronomic rate at a frequency of once in a 3 year period; complete Items a-h for sites receiving frequent application - land application of sewage sludge in excess of 70% the agronomic rate at a frequency greater than once in a 3 year period)

- a. Provide a general location map for each county which clearly indicates the location of all the land application sites.
- b. For each land application site provide a site plan of sufficient detail to clearly show the concerned landscape features and associated buffer zones (See instructions). Provide a legend for each landscape feature and the net acreage for each field taking into account the proposed buffer zones.
- In order to ensure that land application of bulk sewage sludge will not impact federally listed threatened or endangered species or federally designated critical habitat, the applicant must notify the field office of the U.
   Department of the Interior, Fish and Wildlife Service (FWS), by a letter, the proposed land application activities with the identification of the land application sites. The address and phone number of FWS are provided below.

U. S. Fish and Wildlife Service Virginia Field Office P. O. Box 480 White Marsh, VA 23183 TEL: (804)693-6694

Provide a copy of the notification letter with this application form.

d. Provide a soil survey map, preferably photographically based, with the field boundaries clearly marked. (A USDA-SCS soil survey map should be provided, if available.)

Provide a detailed legend for each soil survey map which uses accepted USDA-SCS descriptions of the typifying pedon for each soil series (soil type). Complex associations may be described as a range of characteristics. Soil descriptions shall include as a minimum the following information.

- 1) Soil symbol
- 2) Soil series, textural phase and slope range
- 3) Depth to seasonal high water table
- 4) Depth to bedrock
- 5) Estimated soil productivity group (for the proposed crop rotation)

### Item e - h are required for sites receiving frequent application of sewage sludge

- e. In order to verify the information provided in item d, characterize the soil at each land application site.

  Representative soil borings or test pits to a depth of five feet or to bedrock if shallower, are to be coordinated for the typifying pedon of each soil series (soil type). Soil descriptions shall include as a minimum the following information:
  - 1). Soil symbol
  - 2). Soil series, textural phase and slope range
  - 3). Depth to seasonal high water table
  - 4). Depth to bedrock
  - 5). Estimated soil productivity group (for the proposed crop rotation)

f. Collect and analyze soil samples from each field, weighted to best represent each of the soil borings performed for Item e. Using the table below or a separate attachment, provide at least one analysis per sample for each of the following parameters.

Soil Organic Matter (%)

Soil pH (std. units)

Cation Exchange Capacity (meq/100g)

Total Nitrogen (ppm)

Organic Nitrogen (ppm)

Ammonia Nitrogen (ppm)

Nitrate Nitrogen (ppm)

Available Phosphorus (ppm)

Exchangeable Potassium (mg/100g)

Exchangeable Sodium (mg/100g)

Exchangeable Calcium (mg/100g)

Exchangeable Magnesium (mg/100g)

Arsenic (ppm)

Cadmium (ppm)

Copper (ppm)

Lead (ppm)

Mercury (ppm)

Molybdenum (ppm)

Nickel (ppm)

Selenium (ppm)

Zinc (ppm)

Manganese (ppm)

Particle Size Analysis or

USDA Textural Estimate (%)

- g. Relate the crop nutrient needs to anticipated yields, soil productivity rating and the various fertilizer or nutrient sources from sludge and chemical fertilizers. Describe any specialized agronomic management practices which may be required as a result of high soil pH. If the sludge is expected to possess an unusually high CCE or other unusual properties, provide a description of any plant tissue testing, supplemental fertilization or intensive agronomic management practices which may be necessary.
- h. Using a narrative format and referencing any related charts, describe the proposed cropping system. Show how the crop rotation and management will be coordinated with the design of the land application system. Include any supplemental fertilization program, soil testing and the coordination of tillage practices, planting and harvesting schedules and timing of land application.

# Crowther, Joan (DEQ)

From:

Crowther, Joan (DEQ)

Sent:

Tuesday, June 25, 2013 3:47 PM

To:

'Ringrose, Bruce'

Cc:

'dhammes@loudounwater.org'

Subject:

Goose Creek Industrial Park WWTP, VPDES Permit No. VA0080993, Application Complete

Letter

Attachments:

VA0080993 Application Complete Letter 6 25 13.pdf

Hi Bruce.

Please find the attached VPDES Permit Application letter. I have also included a few questions that I need answered in order to complete the draft fact sheet.

Please let me know if you have any questions.

Thanks much,

Joan

Joan C. Crowther
VA Department of Environmental Quality
Northern Regional Office
13901 Crown Court
Woodbridge, VA 22193
Joan.crowther@deq.virginia.gov
703-583-3925



# COMMONWEALTH of VIRGINIA

## DEPARTMENT OF ENVIRONMENTAL QUALITY

Douglas W. Domenech Secretary of Natural Resources NORTHERN REGIONAL OFFICE 13901 Crown Court, Woodbridge, Virginia 22193 (703) 583-3800 Fax (703) 583-3821 www.deq.virginia.gov

David K. Paylor Director

Thomas A. Faha Regional Director

June 25, 2013

### By Email (bringrose@loudounwater.org)

Mr. Bruce Ringrose, PE Manager of Community Systems Loudoun Water P. O. Box 4000 44865 Loudoun Water Way Ashburn, VA 20146

Re: Goose Creek Industrial Park WWTP, VPDES Permit No. VA0080993, VPDES Application Complete Letter

#### Dear Mr. Ringrose:

Your application dated June 8, 2013 received June 10, 2013 has been reviewed and appears to be complete. The next steps involve assembling the information necessary to develop the permit limitations and then drafting the permit. I expect to have the draft permit prepared in the next 2 to 3 months. Once the draft permit is prepared and the appropriate reviews are performed, I will transmit the draft permit and supporting documentation to you for review.

I would appreciate your concurrence of the following wastewater treatment facility description and facility diagram (attached):

The Goose Creek Industrial Park WWTP treats domestic wastewater flows from the surrounding industrial development that includes a lumberyard, recycling facility and numerous other enterprises. The prefabricated extended aeration plant is designed to treat 10,000 gpd, but normally treats about 1,500 gpd; discharge is intermittent (weekly to monthly). The lagoon is emptied in the late fall and discharge does not occur in the winter. Treatment consists of the following stages: preliminary, secondary, holding pond, chlorination/dechlorination and post aeration.

### Preliminary Treatment

Influent from a collection system serving the Goose Creek Industrial Park enters the headworks via gravity where preliminary treatment consists of a comminutor and bar screen. The bar screen serves as the preliminary treatment backup when the comminutor is being serviced. Solids generated in the preliminary treatment process are disposed via sanitary landfill.

#### Secondary Treatment

The wastewater then enters the extended aeration basin, where longitudinal aerators operate via a timer (30 minutes on and 30 minutes off). Effluent from the aeration chamber then enters the clarifier. Sludge in the secondary clarifier is returned to the aeration basin when the aerators are operating. The return rate is based on settleability, mixed liquor suspended solids and sludge volume index testing. Remaining sludge is wasted to the aerated sludge holding tank.

#### Holding Pond

After treatment in the secondary clarifier, wastewater is directed to a 150,000 gallon bentonite clay lined pond in which settling and duckweed provide additional treatment. A grid system has been installed to keep duckweed evenly distributed. A wooden sled is used to harvest duckweed at least annually. The harvested duckweed is dewatered on site and is disposed via landfill.

#### Chlorination/Dechlorination/Post-Aeration

After pond treatment, the wastewater is aerated again in the chlorine contact tank. Disinfection and dechlorination are achieved using tablet feeder systems that dispense calcium hypochlorite and sodium bisulfite, respectively. Post aeration in the dechlorination chamber is turned on manually every time a discharge occurs. Sampling is conducted after the dechlorination chamber.

After all treatment, flow is measured at a 45° v-notch weir prior to shore-based discharge through an 8-inch diameter pipe (Outfall 001). The discharge is approximately 15 feet from the southeast fence of the treatment plant and approximately 20 feet upstream of the convergence of Sycolin Creek and Goose Creek. Discharge from the corrugated pipe flows to Sycolin Creek through a small rock-covered channel.

I also need list of chemicals stored at the wastewater treatment facility. The previous VPDES Permit Fact Sheet had the following list of chemicals. Please make any additions or deletions as necessary

| Materials Description      | Volume Stored     | Spill / Stormwater Prevention Measures                      |  |
|----------------------------|-------------------|---|--|
| Calcium hypochlorite       | (1) 45 lb. bucket |   |  |
| Sodium bisulfite           | (1) 45 lb. bucket |   |  |
| DPD Total Chlorine Reagent | 50 pillows        | Stored under roof; spills contained within process building |  |
| Hydrated Lime              | 40 lbs.           | process our uning   |  |
| Pollu-Treat C316 (Polymer) | 5 lbs.            |   |  |

Please let me know if the facility description, facility diagram, and the chemical list is correction within the next couple of weeks.

Please contact me at (703) 583-3925 joan.crowther@deq.virginia.gov if you have questions about our procedures or the status of your draft permit.

Sincerely,

Joan C. Crowther VPDES Permit Writer

cc: Dale Hammes, General Manager (<u>Dhammes@loudounwater.org</u>) VA0080993 Reissuance File

Attached: Facility Diagram

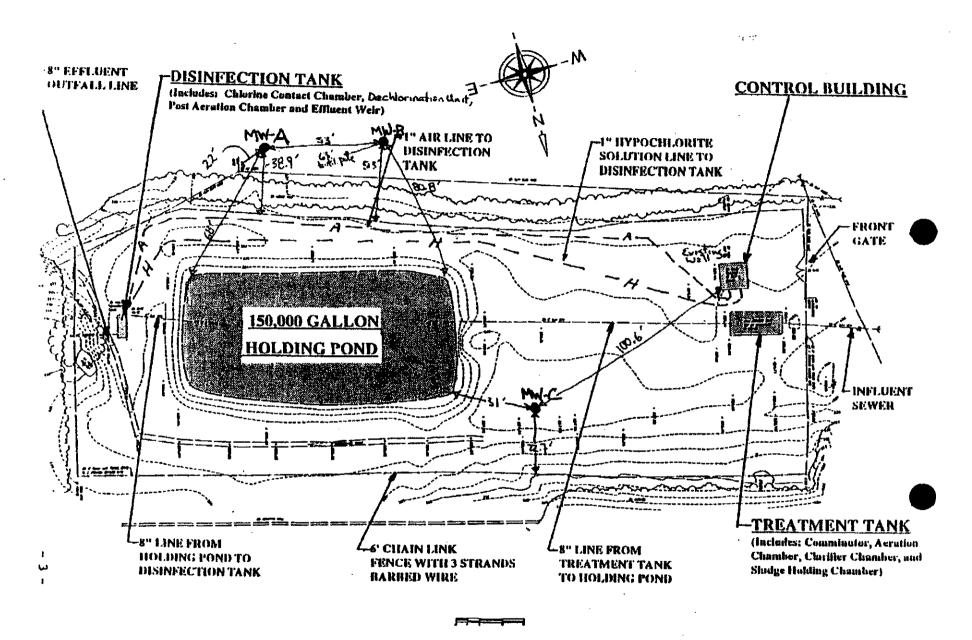


FIGURE 2 - GCIP-WWTP SITE LAYOUT